

McBRAYER, McGINNIS, LESLIE & KIRKLAND, PLLC
ATTORNEYS-AT-LAW

W. BRENT RICE
brice@mmlk.com

201 E. Main Street, Suite 1000
Lexington, Kentucky 40507
(859) 231-8780
FAX (859) 231-6518

RECEIVED

September 23, 2005

SEP 23 2005

Ms. Beth A. O'Donnell, Executive Director
Public Service Commission
P.O. Box 615
211 Sower Blvd.
Frankfort, KY 40602-0615

PUBLIC SERVICE
VIA HAND DELIVERY

**RE: Application of Celco Partnership d/b/a Verizon Wireless,
for Issuance of a Certificate of Public Convenience and Necessity to
Construct a Cell Facility on Sand Hill Road and Mize Branch Road,
Bath County, Kentucky ("Application")
PSC Case No. 2005-00360 (Sandy Ridge 2 Facility)**

Dear Ms. O'Donnell:

Please be advised that the undersigned represents Verizon Wireless in regard to the above-referenced application which I am filing on its behalf today with the Commission.

I request a waiver of the required original and ten copies of the Application and submit the original and four (4) copies for filing. Additionally, two sets of project description drawings are submitted with the Application, both of which are signed and sealed by a licensed professional engineer in Kentucky. Any comments or questions in regard to the application should be forwarded to the undersigned.

Thank you for your assistance in this matter.

Sincerely,



W. Brent Rice
Counsel for Verizon Wireless

WBR/dkw
Enclosures

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

APPLICATION OF CELLCO PARTNERSHIP d/b/a)
VERIZON WIRELESS FOR ISSUANCE OF A)
CERTIFICATE OF PUBLIC CONVENIENCE AND)
NECESSITY TO CONSTRUCT AN ADDITIONAL)
CELL FACILITY ON SAND HILL ROAD & MIZE)
BRANCH ROAD, LIVINGSTON, ROCKCASTLE)
COUNTY, KENTUCKY)
(THE SANDY RIDGE 2 CELL FACILITY))

Case No. 2005-00360

RECEIVED

SEP 23 2005

PUBLIC SERVICE
COMMISSION

APPLICATION

Cellco Partnership, a Delaware General Partnership, d/b/a Verizon Wireless ("Applicant") applies for a Certificate of Public Convenience and Necessity to construct and operate an additional cell facility to serve the customers of its wireless radio telecommunications network in the Commonwealth of Kentucky. In support of this Application, Applicant, respectfully states that:

1. Its complete name, address and telephone number are: Cellco Partnership, d/b/a Verizon Wireless, 180 Washington Valley Road, Bedminster, New Jersey 07921, (908)306-7000, having a local address of 652 South Third Street, Louisville, Kentucky 40202, (502)588-2348.

2. The Applicant is a Delaware general partnership and is therefore not subject to the Articles of Incorporation filing requirements set forth in 807 KAR 5:063 § 1(1)(a) and 807 KAR 5:001 § 8(1)(3). It is a successor in interest to GTE Wireless of the Mid-West Incorporated and GTE Wireless of the South Incorporated, both of which contributed assets to Cellco Partnership as the Public Service Commission was advised by letter dated July 5, 2000, a copy of which is attached hereto as **Exhibit A**. Cellco Partnership's Adoption Notice was filed with the Public Service Commission as "P.S.C. Adoption Notice No. 1" on July 5, 2000, effective pursuant to 807 KAR

5:011 § 9(1) on July 10, 2000. A copy of this Adoption Notice, stamped as “Effective” by the Public Service Commission is additionally attached as part of **Exhibit A**.

3. The Applicant proposes to construct an additional cellular facility in Rockcastle County, Kentucky (the "Cell Facility"). The Cell Facility will be comprised of a 300' self-supporting tower and an equipment shelter. The equipment shelter will contain the transmitters and receivers required to connect the cell facility with wireless telephone users, which will link the Cell Facility with Applicant's other cells. The Cell Facility will be fenced with a secured access gate. Three (3) Project Description Drawings are being submitted with this Application. A detailed description of the manner in which the Cell Facility will be constructed is included on the Site Plan (scale: 1" = 200'). A reduced copy of the survey is attached as **Exhibit B**. The survey is signed and sealed by Frank L. Sellinger, II, a licensed professional land surveyor registered in Kentucky and it depicts the proposed location of the tower and all easements and existing structures on the property on which the tower will be located. A vertical tower profile and its foundation, each signed and sealed by a professional engineer registered in Kentucky are attached as **Exhibit C**. The tower design plans include a description of the standard according to which the tower was designed.

4. An original geotechnical investigation report performed by FStan Land surveyors and Consulting Engineering of Louisville, Kentucky, dated February 25, 2005 is attached as **Exhibit D**. The geotechnical investigation report is signed and sealed by Raymond E. Frye, Jr., P.E., a professional engineer registered in Kentucky. The geotechnical investigation report includes boring logs and foundation design recommendations.

5. As noted on the Survey attached as a part of **Exhibit B**, the surveyor has determined

that the site is not within any FIA flood hazard area.

6. The possibility of a strong ground shaking has been considered in the design of this guyed tower. Formulas are given in codes for earthquake loading. The formulas are for lateral loads, and they take into account the seismic zone, ground motion and structure. The two most important components of the structure are its weight and shape. Applying all of the factors to the formula, the resultant earthquake load is less than the design wind load. Seismic loading has been considered in the design of this tower, although it is regarded as secondary to the wind loading.

Even if the tower would fall as result of an earthquake, it should not damage any occupied buildings. In the event of failure of the tower mast, all of the debris will most likely lie within a circle whose center is the tower base and whose radius is no more than 60% of the tower height.

7. Similarly, the possibility of a strong wind has been considered in the design of this tower. It has been designed and engineered by professional engineers using computer assistance and the same accepted codes and standards as are typically used for high-rise building construction. This tower has been designed in accordance with the Electronic Industries Association ("EIA") Standard RS-222E, which has been accepted and approved by ANSI and is a nationally recognized tower design standard. The ANSI/EIA standard utilizes a "stepped" wind loading in tower design. This means that a standardized wind speed (the "basic wind speed") is applied to the tower structure at the 33-foot level and then is "increased" with increments of tower height. In this case, the design wind speed is 75 mph. Using the appropriate wind speed for each antenna level, the thrust of the antenna and its corresponding waveguide load are applied to the tower structure for maximum member loads.

8. Personnel directly responsible for the design and construction of the proposed tower

are qualified and experienced. The soil testing and part of the foundation design was performed by FStan of Louisville, Kentucky under the supervision of Raymond E. Frye, Jr., a registered professional engineer in the Commonwealth of Kentucky. His specialty is geotechnical engineering which includes sub-surface exploration and foundation design. He has served as project and principal engineer on various projects similar to the applicant's. These projects include construction, tower crane foundations, and nexrad doppler radar towers, other mobile telephone towers and elevated water towers. Foundation types for these towers have included drilled piers, auger-cast piles, driven piles and spread footings. Design of the tower and foundation was performed by Ft. Worth Tower, Inc. of Ft. Worth, Texas by Martin L. de la Rosa, a licensed professional engineer in the Commonwealth of Kentucky. The applicant uses qualified installation crews and site inspectors for construction of its towers.

9. The public convenience and necessity require the construction of this additional Cell Facility. The additional Cell Facility is essential to improve service to Applicant's current customers in that transmission and reception "weak spots" within the area to be covered by the Cell Facility will be substantially reduced. The Cell Facility will also increase the system's capacity to meet the increasing demands for cellular service in Kentucky.

The process that was used in selecting the site for the proposed Cell Facility by the applicant's radio frequency engineers was consistent with the process used for selecting generally all other existing cell facilities within the licensed area. The engineers used computer programs to locate cell sites that will enable the cell facilities to serve the Federal Communications Commission certificated territory without extending beyond its approved boundary and to meet other mandates of the Commission. The engineers select the optimum site in terms of elevation and location to provide the

best quality service to customers in the service area. A map of the area in which the tower is proposed to be located, that is drawn to scale and that clearly depicts the necessary search area within which a site should be located as determined by the Applicant's Radio Frequency Engineers is attached as **Exhibit E**.

It is imperative that the proposed Cell Facility be constructed to allow Applicant to meet its licensing requirements as mandated by the Federal Communications Commission and to further meet the increasing demands for cellular service in the licensed area.

10. The Cell Facility will serve an area totally within Applicant's current service area in the licensed area.

11. Since the proposed Cell Facility will serve only the licensed area, no further approvals by the Federal Communications Commission ("FCC") are required. See 47 C.F.R. §24.11(b), "[b]lanket licenses are granted for each market and frequency block. Applications for individual sites are not required and will not be accepted."

12. An Application to the Federal Aviation Administration ("FAA") was filed on September 21, 2005, a copy of which is attached as **Exhibit F**. Upon receiving a determination from the FAA, the applicant will forward a copy of such determination as a supplement to this Application. An Application to the Kentucky Airport Zoning Commission ("KAZC") was filed on September 21, 2005, a copy of which is additionally attached as **Exhibit G**. Upon receiving a determination from KAZC, the applicant will forward a copy of such determination as a supplement to this application.

13. The proposed location of the tower is not within a jurisdiction that has adopted

planning and zoning regulations in accordance with KRS Chapter 100. The Applicant has notified the Rockcastle County Judge Executive, by certified mail, return receipt requested, of the proposed construction. The Applicant included in the notice the Commission docket number under which the application will be processed and informed said person of his right to request intervention. A copy of the notice is attached as **Exhibit H**.

14. The Cell Facility will be located on Sand Hill Road and Mize Branch Road, Livingston, Rockcastle County, Kentucky 40445. Appropriate notices 2' X 4' with the word "TOWER" in letters at least four inches high, have been posted in a visible location on the proposed site and on the nearest public road and shall remain posted for at least two (2) weeks after the Application is filed. The location of the proposed facility has been published in a newspaper of general circulation in Rockcastle County, Kentucky. The Cell Facility's coordinates are: Latitude: 37° 17' 20.82" N; Longitude: 84° 15' 44.24" W.

15. Clear directions to the proposed site are set forth on the title sheet to the Project Description Drawings. The Vicinity Map attached to the Survey identifies every structure within 500' of the proposed tower, and all easements and existing structures within 200' of the access drive, including the intersection with the Public Street System, drawn to a scale no less than one (1) inch equals 200'. The telephone number of the person preparing the directions is (502)459-8402.

16. Applicant has notified every person who is contiguous or within 500' of the proposed tower by certified mail, return receipt requested, of the proposed construction. Applicant included in said notice the Commission docket number under which the Application will be processed and informed each person of his or her right to request intervention. A list of the property owners and

copies of the certified letters sent to the referenced property owners are attached as **Exhibit I**. Copies of the return receipts will be filed with the Commission when received.

17. The site for the proposed Facility is located on Sand Hill and Mize Branch Road, Rockcastle County, Kentucky, on the Ralph and Connie Hamilton property. The proposed site is a rural area and the subject property is not zoned.

18. Applicant has considered the likely effects of the installation on nearby land uses and values and has concluded that there is no more suitable location reasonably available from which adequate service can be provided. Applicant attempted to co-locate on existing towers or structures, however, there are no such existing towers or structures in the vicinity of the proposed site.

19. The site for the Cell Facility is to be leased from Ralph and Connie Hamilton, pursuant to an Option and Lease Agreement dated June 16, 2005. A copy of the Option and Lease Agreement is attached as **Exhibit J**.

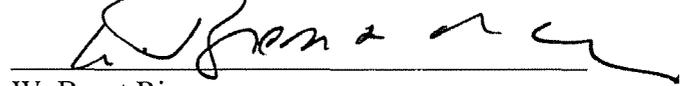
20. The names of all public utilities, corporations, or persons with whom the proposed new construction is likely to compete is Cingular Wireless, RamCell, Sprint PCS, Nextel Partners, and AT&T Wireless

21. Applicant plans to finance the construction of the Cell Facility through the use of working capital. If sufficient funds are not available from this source, the company will obtain funds through short-term loans payable within two years.

22. Any customer complaints may be reported by dialing 611 on the customer's cellular phone.

WHEREFORE, Applicant requests that the Commission, pursuant to KRS 278.020, grant a Certificate of Public Convenience and Necessity to Applicant for construction and operation of the proposed Cell Facility and providing for such other relief as is necessary and appropriate.

Respectfully submitted,



W. Brent Rice
MCBRAYER, MCGINNIS, LESLIE &
KIRKLAND
201 East Main Street, Suite 1000
Lexington, KY 40507
Phone: 859/231-8780

COUNSEL FOR CELLCO
PARTNERSHIP d/b/a VERIZON
WIRELESS

LIST OF EXHIBITS

Exhibit A	Applicant Adoption Notices
Exhibit B	Reduced Site Plan and Survey
Exhibit C	Tower and Foundation Profile
Exhibit D	Report of Geotechnical Exploration
Exhibit E	Search Area Map
Exhibit F	FAA Application
Exhibit G	KAZC Application
Exhibit H	Correspondence to Rockcastle County Judge Executive
Exhibit I	Notice to Adjoining Property Owners
Exhibit J	Real Estate Lease Agreement

JACKSON & KELLY PLLC

ATTORNEYS AT LAW

175 EAST MAIN STREET
P. O. BOX 2150
LEXINGTON, KENTUCKY 40505-2150 40588-9945

TELEPHONE 806-255-9500 TELECOPIER 806-281-6478

<http://www.jacksonkelly.com>

1600 LAIDLEY TOWER
CHARLESTON, WEST VIRGINIA 25301
TELEPHONE 304-340-1000

100 FORCROFT AVENUE
MARTINSBURG, WEST VIRGINIA 25402
TELEPHONE 304-283-8400

256 HUSSELL AVENUE
NEW MARTINSVILLE, WEST VIRGINIA 26155
TELEPHONE 304-455-1751

8000 HAMPTON CENTER
MORGANTOWN, WEST VIRGINIA 26505
TELEPHONE 304-589-3000

1000 TECHNOLOGY DRIVE
FAIRMONT, WEST VIRGINIA 26554
TELEPHONE 304-368-2000

412 MARKET STREET
PARKERSBURG, WEST VIRGINIA 26101
TELEPHONE 304-424-3400

1144 MARKET STREET
WHEELING, WEST VIRGINIA 26003
TELEPHONE 304-233-4000

1650 LINCOLN STREET
DENVER, COLORADO 80214
TELEPHONE 303-810-0003

2401 PENNSYLVANIA AVENUE N.W.
WASHINGTON, D.C. 20037
TELEPHONE 202-973-0200

MEMBER OF LEX MUNDI
THE WORLD'S LEADING ASSOCIATION
OF INDEPENDENT LAW FIRMS

July 5, 2000

Hon. Martin J. Huelsmann
Executive Director
Kentucky Public Service Commission
211 Sower Blvd.
Frankfort, KY 40602-0615

JUL 05 2000

Re: Transfer of GTE Wireless Companies to Cellco Partnership
d/b/a Verizon Wireless

Dear Mr. Huelsmann:

We are hereby notifying the Commission, on behalf of all involved companies, of the following restructuring resulting from the merger of GTE Corporation ("GTE") and Bell Atlantic Corporation ("Bell Atlantic"). On June 30, 2000, Bell Atlantic and GTE completed their merger. As a result of the merger, the assets and licenses of GTE Wireless will be contributed to the merged company's domestic national wireless subsidiary known as Cellco Partnership ("Cellco"). GTE Wireless' Kentucky operations, with the exception of its Cincinnati PCS license (see letter dated June 21, 2000), will thus be combined with the other wireless operations managed by Bell Atlantic, all of which will do business under the brand name Verizon Wireless.

1. GTE Mobilnet of Clarksville Incorporated will transfer its assets and cellular business in the Clarksville, Tennessee-Hopkinsville, Kentucky Metropolitan Statistical Area to GTE Wireless Holdings LLC. Both companies are wholly owned by GTE Wireless Incorporated. The membership interest of GTE Wireless Holdings LLC will then be contributed to Cellco. GTE Wireless Holdings LLC will be liquidated into Cellco.

2. The stock of GTE Wireless of the Midwest Incorporated will be contributed to Cellco. GTE Wireless of the Midwest Incorporated will continue to provide cellular service in Evansville and Owensboro Metropolitan Statistical Areas.

Hon. Martin J. Huelsmann
July 5, 2000
Page 2

3. The Kentucky RSA No. 1 Partnership interest will be contributed to Cellco. Kentucky RSA No. 1 Partnership will continue to provide cellular service in Kentucky Rural Service Area No. 1.

4. The assets of GTE Wireless of the South Incorporated will be contributed to Cellco. GTE Wireless of the South Incorporated provides cellular service in the Louisville and Lexington Metropolitan Statistical Areas and Kentucky Rural Service Areas No. 2 and 7.

Cellco will adopt the tariffs of GTE Mobilnet of Clarksville Incorporated and GTE Wireless of the South. Their adoption notices are enclosed. In addition, revised tariffs for GTE Wireless of the Midwest Incorporated and Kentucky RSA No. 1 Partnership will be filed shortly reflecting that these entities will be doing business as Verizon Wireless.

We understand from this Commission's January 8, 1998 Order in Administrative Case No. 360 that this notice is all that is required for this restructuring. If you have any questions, please do not hesitate to contact me.

Sincerely yours,



Jeffrey J. Yost

JJY:bsh

c: Mr. Francis Malnati
Mr. Carl Povelites

11113\301\308852

P.S.C. Adoption Notice No. 1
ADOPTION NOTICE

The undersigned, Celco Partnership d/b/a Verizon Wireless, of Bedminster, New Jersey, hereby adopts, ratifies, and makes its own, in every respect as if the same had been originally filed and posted by it, all tariffs and supplements containing rates, rules and regulations for furnishing commercial mobile radio service in the Commonwealth of Kentucky, filed with the Public Service Commission by GTE Wireless of the South Incorporated of Alpharetta, Georgia, and in effect on the day of July 10, 2000, the date on which the public service business of GTE Wireless of the South Incorporated, was taken over by it.

This notice is issued on the 5th day of JULY, 2000, in conformity with Section 20 of P.S.C. Tariff Regulations adopted by the Public Service Commission.

By: 

S. Mark Tuller

Vice President, Legal and External Affairs and General Counsel

Celco Partnership d/b/a Verizon Wireless

PUBLIC SERVICE COMMISSION
OF KENTUCKY
EFFECTIVE

JUL 10 2000

PURSUANT TO 807 KAR 5:011,
SECTION 9 (1)

BY: Stephan O. Bell
SECRETARY OF THE COMMISSION

CELLCO PARTNERSHIP D/B/A/ VERIZON WIRELESS
-CELLULAR RADIO TELECOMMUNICATIONS SERVICE TARIFF-

For the Lexington, Kentucky; Louisville, Kentucky/Indiana MSAs
and the Kentucky 7 - Trimble RSA
and the Kentucky 2 - Union RSA
Cellular Geographic Service Areas

PUBLIC SERVICE COMMISSION
OF KENTUCKY
EFFECTIVE

JUL 10 2000

PURSUANT TO 807 KAR 6.011,
SECTION 9 (1)
BY: Stephan O. Bell
SECRETARY OF THE COMMISSION

ISSUED: JULY 6, 2000

EFFECTIVE: JULY 10, 2000

CELLCO PARTNERSHIP D/B/A/ VERIZON WIRELESS

BY: S. Mark Tuller

S. Mark Tuller
V.P. Legal and External Affairs and General Counsel
180 Washington Valley Road
Bedminster, NJ 07921

SHEET 1

-  - VICINITY AND 500' STRUCTURAL MAP
-  - ABUTTING PROPERTY OWNERS
-  - U.S.G.S. QUAD MAP

SHEET 2

-  - PROPOSED CELLCO PARTNERSHIP LEASE AREA
-  - LEGAL DESCRIPTIONS
-  - FLOOD ZONE DATA



* ADJOINING LAND OWNER VALUATION ADMINISTRATIVE A REPRESENTATIVE FROM IN COMPLIANCE WITH ALL REQUIREMENTS BEFORE COMMISSION AND FOR T.

MAP 75, LOT 10
HAMILTON, RALPH & CONNIE
ROUTE 5 BOX 448
LIVINGSTON, KY. 40445
DEED BOOK 129, PAGE 635
NO ZONING

MAP 75, LOT 12
ARKLE, ELAINE & ELAINE SELLERS
P.O. BOX 194
LIVINGSTON, KY. 40445
DEED BOOK 168, PAGE 576
NO ZONING

MAP 75, LOT 11.01
SMITH, JAMES & BARBARA
2196 ROUTE 28
GOSHEN, OH. 45122
DEED BOOK 118, PAGE 399
NO ZONING

MAP 75, LOT 14
BURKE, BILLY GENE & FLONNIE
P.O. BOX 206
LIVINGSTON, KY. 40445
DEED BOOK 168, PAGE 300
NO ZONING

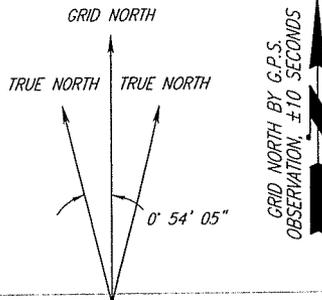
MAP 62, LOT 17
MINK, EVELYN
ROUTE 5 BOX 451
LIVINGSTON, KY. 40445
DEED BOOK 144, PAGE 470
NO ZONING

MAP 75, LOT 10.01
HAMILTON, RALPH & CONNIE
ROUTE 5 BOX 448
LIVINGSTON, KY. 40445
DEED BOOK 195, PAGE 503
NO ZONING

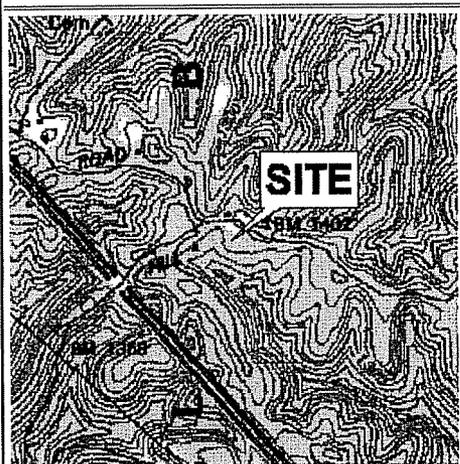
MAP 75, LOT 7
CROMER, MELVIN & RHONDA
ROUTE 5 BOX 453
MT. VERNON, KY. 40456
DEED BOOK 164, PAGE 371
NO ZONING

MAP 75, LOT 9
STURGILL, DORA
ROUTE 5 BOX 445
LIVINGSTON, KY. 40445
DEED BOOK 177, PAGE 367
NO ZONING

MAP 75, LOT 11
BLACKBURN, JACKIE & GEORGIANNA
ROUTE 5 BOX 443
LIVINGSTON, KY. 40445
DEED BOOK 191, PAGE 579
NO ZONING



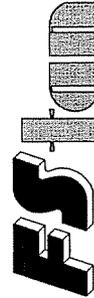
NORTH IS BASED ON THE KENTUCKY STATE PLANE COORDINATE SYSTEM, SOUTH ZONE AND WAS DETERMINED BY COMPUTATION FROM G.P.S. OBSERVATION ON JULY 9, 2004.



QUAD MAP
SCALE: 1"=2000'

U.S.G.S. 7 1/2 MINUTE QUAD MAP OF MT. VERNON

CELLCO PARTNERSHIP



F.S. Land Company
T. Alan Neal Company
Land Surveyors and Consulting Engineers
PO Box 17546 2313/2315 Crittenden Drive
Louisville, KY 40217
Phone: (502) 635-5866 (502) 636-5111
Fax: (502) 636-5263

SITE NUMBER:

SITE NAME:

SANDY RIDGE 2

SITE ADDRESS:

SAND HILL ROAD &
MIZE BRANCH ROAD
LIVINGSTON, KY 40445

PROPOSED CELLCO PARTNERSHIP LEASE AREA:

AREA = 10,000 sq. ft.

PROPERTY OWNER:

RALPH & CONNIE HAMILTON
ROUTE 5 BOX 448
LIVINGSTON, KY. 40445

MAP NUMBER:

75

PARCEL NUMBER:

10

SOURCE OF TITLE:

DEED BOOK 129, PAGE 635

DWG BY:

JMW

CHKD BY:

FSII

DATE:

01 04 05

FSTAN PROJECT NO.:

04-2996

SHEET 1 OF 2

REVISIONS:

C1

Tower Height 300 FT.

Design No. S05-0135-C Date March 30, 2005

Revision No. ___ Date ___

Page 1 of 2 Design By: HD/TW Chk'd By: TW

STANDARD -EIA/TIA-222-F
 IMPORTANCE FACTOR = 1.0
 INCREASE IN ALLOWABLE STRESSES = 33.3%

LOAD CASES:

CASE 1-BASIC WIND= 75.0 MPH, NO ICE

CASE 2-WIND= 65.0 MPH, 1/2" ICE

CASE 3-OPERATIONAL WIND= 50.0 MPH, NO ICE

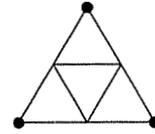
ANTENNA LIST

NO.	EL	ANTENNA	AZ	COAX
-	TOP	Lightning Rod	-	-
1-12	TOP	12-SC 9014-DIN	-	(12)-LDF7
-	TOP	AM110-14	-	-
13-24	280'	12-SC 9014-DIN	-	(12)-LDF7
-	280'	14' MTS SEC FRAMES	-	-
25-36	260'	12-SC 9014-DIN	-	(12)-LDF7
-	260'	14' MTS SEC FRAMES	-	-
37-48	240'	12-SC 9014-DIN	-	(12)-LDF7
-	240'	14' MTS SEC FRAMES	-	-
49	220'	8' STD-NO RADOME	0°	(1)-EW220

LINEAR APPURTENANCES

STEP BOLTS ON ONE LEG

(3) WAVEGUIDE LADDERS: (10'-300', 10'-300', 10'-300')
 COAX EQUALLY DISTRIBUTED TO ALL THREE FACES.



INTERIOR BRACING
 (1) 5/8" BOLT EA END
 (EL 10'-0" TO 10'-0")



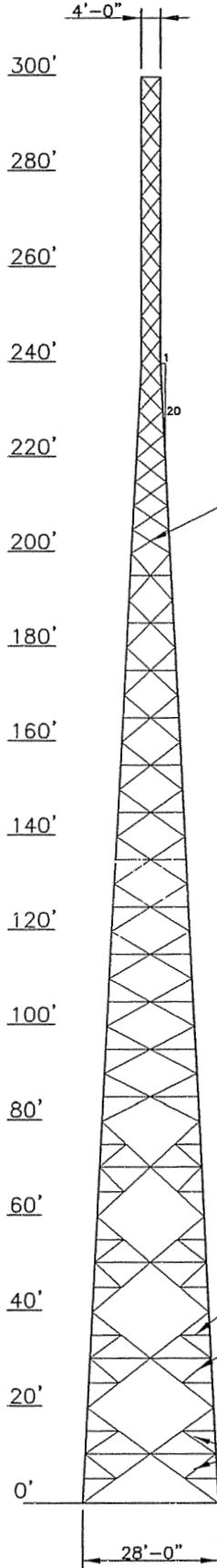
MEMBER TABLE	
Y	L1 3/4 X 1 3/4 X 3/16
B	L2 X 2 X 3/16
C	L2 1/2 X 2 1/2 X 3/16
D	L3 X 3 X 3/16
E	L3 X 3 X 1/4
F	L3 1/2 X 3 1/2 X 1/4

MAX. BASE REACTIONS (UNFACTORED)

UPLIFT/LEG: 348.1 KIPS. O.T. MOMENT: 9421.1 FT-KIPS.
 COMP./LEG: 414.8 KIPS. MAX. DOWNLOAD: 109.3 KIPS.
 HORIZ./LEG: 34.1 KIPS. TOTAL SHEAR: 55.2 KIPS.

EST.WEIGHT: 46.3 KIPS (No SPL or Gussets)

ASTM		50 KSI		
		A36	A325	A36
LEGS (")	4 1/4	2	2-1/2	4-5/8
DIAGONALS	E	Y	N/R	N/R
GIRTS	CC	B	N/R	N/R
INT BRACING	F	N/R	N/R	N/R
SUB DIAG	D	N/R	N/R	N/R
SUB GIRT	C	N/R	N/R	N/R
DIAG BOLTS (")	2-5/8	2-1/2	2-1/2	2-1/2
RDNT BOLTS (")	1-5/8	1-5/8	1-5/8	1-5/8
SPLICE BOLTS (")	6-1 3/8	6-1	6-5/8	4-5/8
ANCHOR BOLTS (")	6-2φ x 6'-0" TOTAL ANCHOR BOLT LENGTH	6-1	6-1	6-5/8
NOTE:	DOUBLE LETTERS SIGNIFY BACK TO BACK ANGLES.			



STITCH BOLT & SPACER R TYP

STITCH BOLT AND SPACER R @ MIDPOINT OF ALL DBL ANGLES TYP

SST0200 7.2.0

NOTES:

1. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.
2. REINFORCING STEEL SHALL BE ASTM A615 GR. 60 (Fy = 60 KSI)
3. TOTAL CONCRETE = 222 CUBIC YARDS
4. SEE PREVIOUS PAGE FOR ANCHOR BOLTS SIZE AND LENGTH
5. FOUNDATION DESIGN IS BASED UPON SOIL REPORT PREPARED BY : FSTAN

PROJECT NO. : 04-2997
 DATED : 2/25/05

6. FOUNDATION IS TO REST ON FIRM UNDISTURBED SOIL

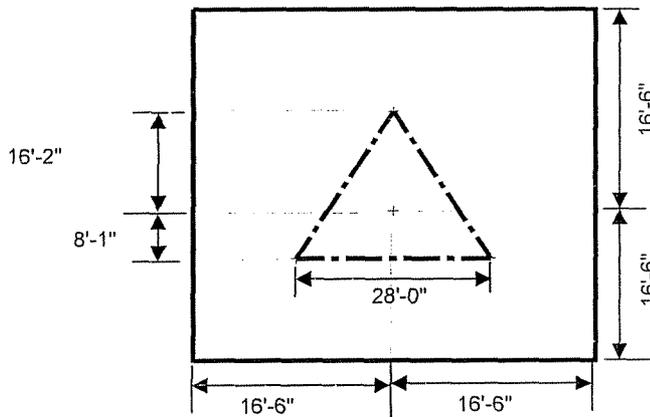
FWT, Inc.

P.O. BOX 8597, FORT WORTH, TX 76124-0597
 TEL: (817)433-1816 FAX (817)255-8656

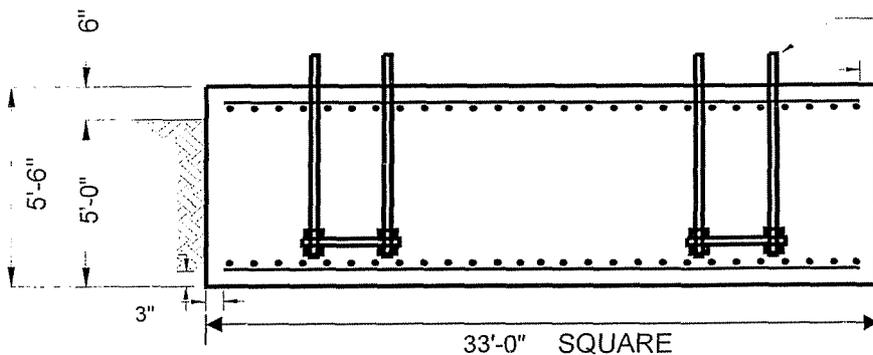
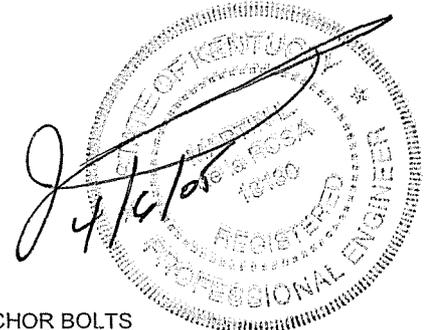
Page 2 Of 2 By TWL
 Checked By TW Date 4/6/05
 Job No. J050405006 Design No. S05-0135-C
 Revision No. _____ Date _____
 Tower 300 FT SELF SUPPORT TOWER
 Site SANDY RIDGE 2, KY
 Owner VERIZON WIRELESS
 Design 75 MPH/ 65 MPH + 0.5" Ice
 According to ANSI/EIA 222-F 1996

FOUNDATION REACTIONS (OLF NOT INCL.)

DOWNLOAD: 109.3 KIPS
 SHEAR: 55.2 KIPS
 OT MOMENT: 9421.1 FT-KIPS



PLAN



ANCHOR BOLTS

(66) #9 RE-BARS AT EQUAL SPACING EACH WAY @ TOP (TOTAL OF 132 #9 RE-BARS)

(66) #9 RE-BARS AT EQUAL SPACING EACH WAY @ BOTTOM (TOTAL OF 132 #9 RE-BARS)

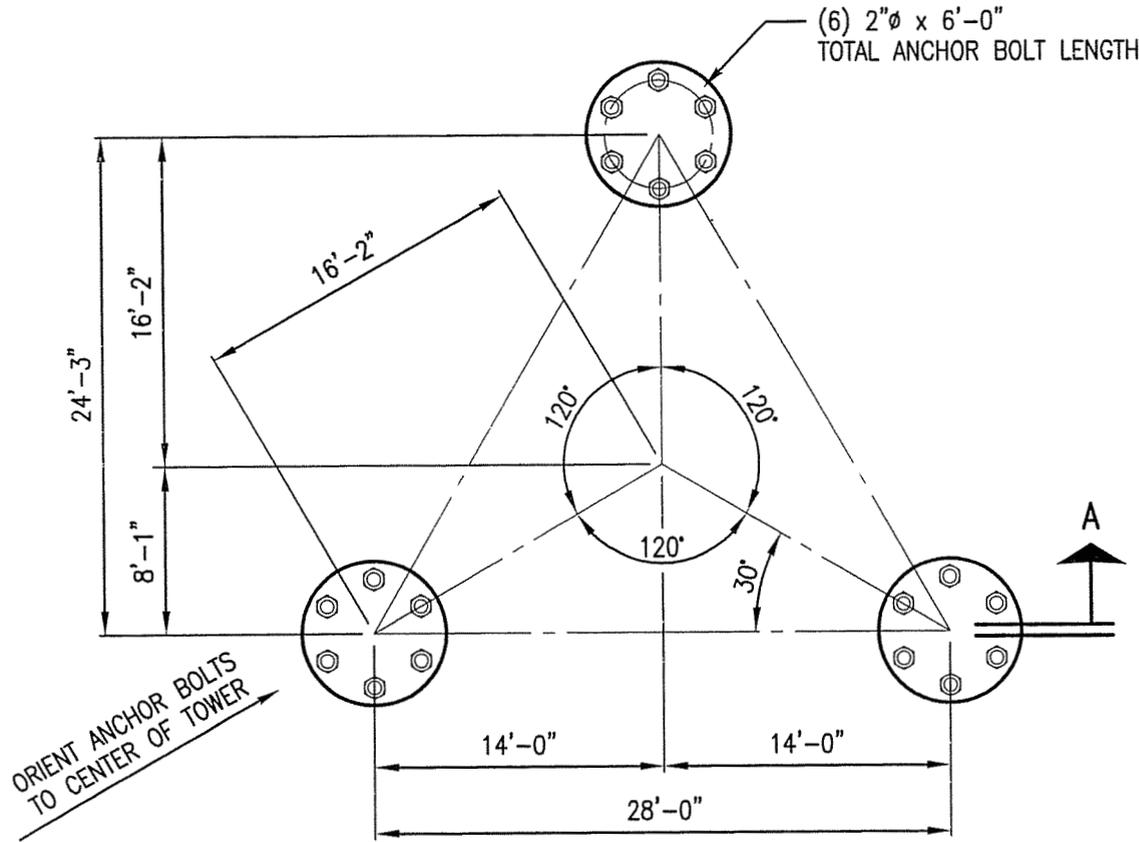
MAT FOUNDATION

NOT TO SCALE

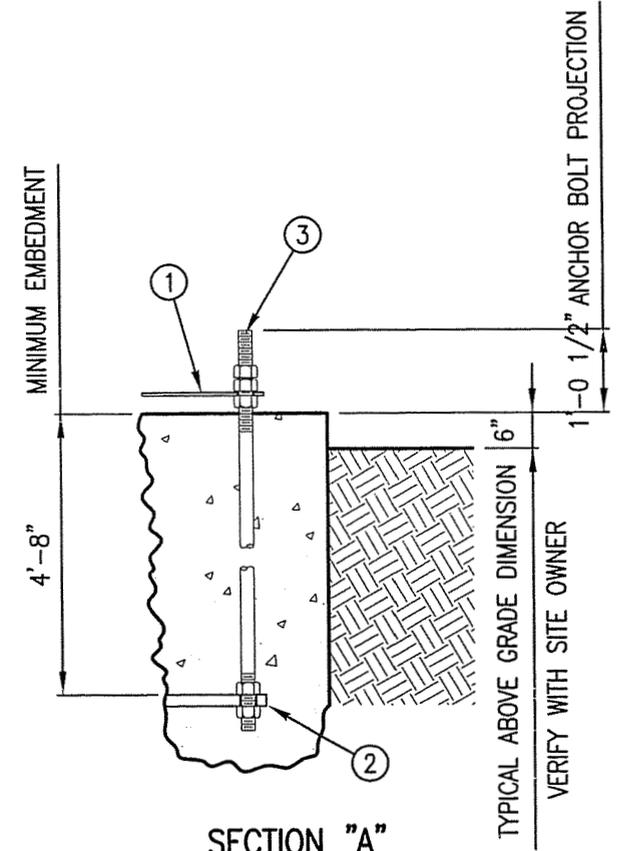
FIELD NOTES:

- 1.) VERIFY TOWER ORIENTATION WITH CUSTOMER.
- 2.) TOP OF FINISHED CONCRETE MUST BE AT THE SAME ELEVATION UNDER ALL TOWER LEGS.
- 3.) SEE FOUNDATION DESIGN FOR SPECIFIC INSTALLATION INFORMATION AND DESIGN CRITERIA.
- 4.) ANCHOR BOLTS TO BE SET WITH FURNISHED ANCHOR BOLT TEMPLATES.
- 5.) ANCHOR BOLT ORIENTATION - SEE BELOW
- 5.) ANCHOR BOLT THREADS ABOVE CONCRETE SHOULD BE PROTECTED DURING FOUNDATION INSTALLATION.
- 7.) REMOVE TOP TEMPLATE PRIOR TO SETTING TOWER BASE SECTION.

BILL OF MATERIAL				
ITEM	MARK NO.	QTY.	DESCRIPTION	WEIGHT/lbs
1	-----	3	TEMPLATE @ TOP	
2	-----	3	ANCHOR PLATE @ BOTTOM	
3	-----	18	2"Ø A36 ANCHOR BOLT x 6'-0"	
4				
5				
6				
7				
8				
9				
10				
TOTAL GALVANIZED WEIGHT/lbs				



PLAN VIEW



SECTION "A"

REV.	DATE	BY	INIT.	DESCRIPTION
DRAWN BY: TLEE		CHECKED BY:		CAD FILE: O:\job\05\04\05\006\Drafting\Ebook\AB0028.dwg
SPECIFIC INFORMATION				SCALE: NONE
SANDY RIDGE 2, ROCKCASTLE COUNTY, KY				SHEET NO. SHEET 1 OF 1
DRAWING TITLE				DATE: 06-APR-05
ANCHOR BOLT INSTALLATION				JOB NO. J050405006
				DRAWING NO. AB0028

! PROPRIETARY AND CONFIDENTIAL !
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FWT, Inc.
5750 East I-20
Fort Worth, Texas 76119 U.S.A.
(817) 255-3060 FAX (817) 255-8656

DATE: 4- 6-2005

TIME: 15:25:48

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USER INTERFACE VERSION: 9.04.0014 DESIGN PROGRAM VERSION: 6.1.0
DISCRETE LOADS VERSION: 1.1.0 FLANGE PLATES DATA VER: 2.5.1

FWT INC. P. O. BOX 8597. FORT WORTH, TX 76124-0597
Analysis & Design of 300.-FT Tower per EIA/TIA-222-F

Design NO.: S05-0135-C Design Date: March 30, 2005
Location: SANDY RIDGE 2, ROCKCASTLE COUNTY, KY
Customer: VERIZON WIRELESS

JOB NO.: J050405006
Engineer: HD/TW

DESIGN LOAD COMBINATIONS:

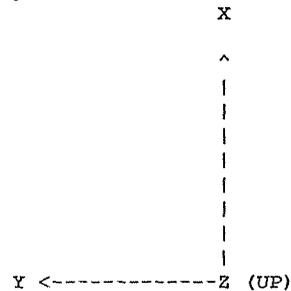
Case 1: Wind at 75. MPH. Radial Ice Thickness = .00 Inches.
Case 2: Wind at 65. MPH. Radial Ice Thickness = .50 Inches.

OPERATIONAL CONDITIONS:

Wind at 50. MPH. Radial Ice Thickness = .00 Inches.

The method of analysis used is based on the equilibrium of joints. The basic structure is statically determinate and the forces in members meeting at a joint can be determined independent of the forces in members at other joints.

COORDINATE SYSTEM



The analysis reported in this document must be reviewed by an experienced engineer.

DATE: 4- 6-2005

TIME: 15:25:48

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USER INTERFACE VERSION: 9.04.0014
DISCRETE LOADS VERSION: 1.1.0

DESIGN PROGRAM VERSION: 6.1.0
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FWT INC. P. O. BOX 8597. FORT WORTH, TX 76124-0597
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Design NO.: S05-0135-C Design Date: March 30, 2005
Location: SANDY RIDGE 2, ROCKCASTLE COUNTY, KY
Customer: VERIZON WIRELESS

JOB NO.: J050405006
Engineer: HD/TW

DESIGN LOAD COMBINATIONS:

Case 1: Wind at 75. MPH. Radial Ice Thickness = .00 Inches.
Case 2: Wind at 65. MPH. Radial Ice Thickness = .50 Inches.

OPERATIONAL CONDITIONS:

Wind at 50. MPH. Radial Ice Thickness = .00 Inches.

Design Wind Velocity (V) = 75.00 mph. Importance Factor = 1.00
Gust Response Factor (Gh) = 1.09 Qz = .00256*Kz*(5625.0)

VELOCITY PRESSURES AT SECTION MID-HEIGHTS.

From* (ft)	To* (ft)	Kz	Gh*Qz (psf)
280.00	300.00	1.861	29.145
260.00	280.00	1.823	28.556
240.00	260.00	1.783	27.935
220.00	240.00	1.741	27.278
200.00	220.00	1.697	26.578
180.00	200.00	1.649	25.828
160.00	180.00	1.597	25.021
140.00	160.00	1.541	24.142
120.00	140.00	1.480	23.174
100.00	120.00	1.411	22.094
80.00	100.00	1.332	20.863
60.00	80.00	1.240	19.418
40.00	60.00	1.126	17.638
20.00	40.00	1.000	15.663
.00	20.00	1.000	15.663

* Elevations are measured from Tower Base. Tower Base Elevation = 0.

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Design NO.: S05-0135-C Design Date: March 30, 2005
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 Customer: VERIZON WIRELESS

JOB NO.: J050405006
 Engineer: HD/TW

WIND LOAD DUE TO STRUCTURE & LINEAR APPURTENANCES PER TOWER PANEL

Panel	Elevations Ave.			Gh*Qz (psf)	e	Cf	Rr	Effective Structural Wind Areas, ft**2				Total Distributed Panel Wind Force (kips)		
	From* (ft)	To* (ft)	Width (ft)					Normal	Apex	Parallel	Aa	Normal	Apex	Parallel
19	205.0	210.0	7.3	26.6	.46	1.96	.68	12.05	11.53	11.66	.00	.628	.601	.608
	Data for .50 inch ice:			.59	1.81	.75		16.73	16.21	16.34	.00	.604	.586	.590
20	200.0	205.0	7.8	26.6	.43	2.01	.66	12.00	11.46	11.60	.00	.640	.611	.618
	Data for .50 inch ice:			.55	1.84	.73		16.54	16.00	16.13	.00	.606	.586	.591
	SECTION 5 NO ICE TOTALS:							48.45	46.44	46.94	.00	2.496	2.393	2.419
	WITH ICE TOTALS:							67.63	65.62	66.12	.00	2.432	2.360	2.378
21	190.0	200.0	8.5	25.8	.42	2.03	.66	25.59	24.21	24.56	.00	1.344	1.272	1.290
	Data for .50 inch ice:			.53	1.87	.71		34.15	32.77	33.12	.00	1.235	1.186	1.198
22	180.0	190.0	9.5	25.8	.38	2.11	.64	25.58	24.12	24.49	.00	1.396	1.316	1.336
	Data for .50 inch ice:			.48	1.93	.69		33.78	32.31	32.68	.00	1.263	1.208	1.222
	SECTION 6 NO ICE TOTALS:							51.17	48.33	49.04	.00	2.741	2.588	2.626
	WITH ICE TOTALS:							67.92	65.08	65.79	.00	2.498	2.394	2.420
23	170.0	180.0	10.5	25.0	.34	2.18	.63	25.72	24.16	24.55	.00	1.405	1.320	1.341
	Data for .50 inch ice:			.44	1.99	.67		33.67	32.11	32.50	.00	1.258	1.200	1.215
24	160.0	170.0	11.5	25.0	.32	2.25	.62	25.94	24.29	24.70	.00	1.458	1.365	1.389
	Data for .50 inch ice:			.41	2.05	.65		33.75	32.09	32.51	.00	1.298	1.234	1.250
	SECTION 7 NO ICE TOTALS:							51.66	48.45	49.25	.00	2.863	2.685	2.730
	WITH ICE TOTALS:							67.42	64.21	65.01	.00	2.556	2.434	2.465
25	150.0	160.0	12.5	24.1	.30	2.28	.62	27.08	25.23	25.69	.00	1.492	1.390	1.416
	Data for .50 inch ice:			.39	2.09	.65		34.85	33.00	33.46	.00	1.318	1.248	1.265
26	140.0	150.0	13.5	24.1	.29	2.33	.61	27.46	25.50	25.99	.00	1.546	1.436	1.464
	Data for .50 inch ice:			.37	2.14	.64		35.18	33.22	33.71	.00	1.361	1.286	1.305
	SECTION 8 NO ICE TOTALS:							54.54	50.72	51.67	.00	3.039	2.826	2.879
	WITH ICE TOTALS:							70.03	66.22	67.17	.00	2.679	2.533	2.570
27	130.0	140.0	14.5	23.2	.28	2.35	.61	29.42	27.06	27.65	.00	1.602	1.473	1.505
	Data for .50 inch ice:			.36	2.16	.63		37.19	34.83	35.42	.00	1.396	1.307	1.329
28	120.0	130.0	15.5	23.2	.27	2.39	.61	29.93	27.44	28.07	.00	1.657	1.520	1.554
	Data for .50 inch ice:			.34	2.20	.63		37.71	35.22	35.84	.00	1.442	1.347	1.371
	SECTION 9 NO ICE TOTALS:							59.36	54.50	55.72	.00	3.259	2.993	3.059
	WITH ICE TOTALS:							74.90	70.05	71.26	.00	2.838	2.654	2.700
29	110.0	120.0	16.5	22.1	.26	2.41	.60	31.19	28.44	29.12	.00	1.663	1.516	1.553
	Data for .50 inch ice:			.33	2.23	.62		39.02	36.26	36.95	.00	1.440	1.338	1.364
30	100.0	110.0	17.5	22.1	.25	2.45	.60	31.79	28.90	29.62	.00	1.717	1.561	1.600
	Data for .50 inch ice:			.31	2.26	.62		39.66	36.77	37.49	.00	1.486	1.378	1.405
	SECTION 10 NO ICE TOTALS:							62.98	57.34	58.75	.00	3.380	3.077	3.153
	WITH ICE TOTALS:							78.68	73.04	74.45	.00	2.926	2.716	2.768
31	90.0	100.0	18.5	20.9	.24	2.47	.60	32.67	29.65	30.40	.00	1.682	1.526	1.565
	Data for .50 inch ice:			.30	2.29	.62		40.62	37.60	38.35	.00	1.453	1.345	1.372
32	80.0	90.0	19.5	20.9	.23	2.50	.60	33.30	30.14	30.93	.00	1.734	1.569	1.610
	Data for .50 inch ice:			.29	2.31	.61		41.32	38.16	38.95	.00	1.497	1.382	1.411
	SECTION 11 NO ICE TOTALS:							65.98	59.79	61.33	.00	3.416	3.095	3.175
	WITH ICE TOTALS:							81.94	75.75	77.30	.00	2.950	2.727	2.783

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 DISCRETE LOADS VERSION: 1.1.0 FLANGE PLATES DATA VER: 2.5.1

FWT INC. P. O. BOX 8597. FORT WORTH, TX 76124-0597
 Analysis & Design of 300.-FT Tower per EIA/TIA-222-F

Design NO.: S05-0135-C Design Date: March 30, 2005
 Location: SANDY RIDGE 2, ROCKCASTLE COUNTY, KY JOB NO.: J050405006
 Customer: VERIZON WIRELESS Engineer: HD/TW

P O I N T L O A D S A T E L E V A T I O N 300.0 ft F R O M T O W E R B A S E .

Load # 1: Lightning Rod. Mounted at Tower C.G. Azimuth= .0
 Wind Area (ft*ft). No Ice: .60; Iced: 1.14
 Weight (lbs). No Ice: 15.00; Iced: 21.00

Case	NO ICE LOAD VALUES						WITH ICE LOAD VALUES					
	Fx	Fy	Fz	Mx	My	Mz	Fx	Fy	Fz	Mx	My	Mz
1	-.02	.00	-.01	.00	.00	.00	-.03	.00	-.02	.00	.00	.00
2	-.01	.02	-.01	.00	.00	.00	-.01	.02	-.02	.00	.00	.00
3	.01	.02	-.01	.00	.00	.00	.01	.02	-.02	.00	.00	.00
4	.02	.00	-.01	.00	.00	.00	.03	.00	-.02	.00	.00	.00
5	.01	-.02	-.01	.00	.00	.00	.01	-.02	-.02	.00	.00	.00
6	-.01	-.02	-.01	.00	.00	.00	-.01	-.02	-.02	.00	.00	.00
7	-.02	-.01	-.01	.00	.00	.00	-.02	-.01	-.02	.00	.00	.00
8	.00	.02	-.01	.00	.00	.00	.00	.03	-.02	.00	.00	.00
9	.02	-.01	-.01	.00	.00	.00	.02	-.01	-.02	.00	.00	.00
10	.02	.01	-.01	.00	.00	.00	.02	.01	-.02	.00	.00	.00
11	.00	-.02	-.01	.00	.00	.00	.00	-.03	-.02	.00	.00	.00
12	-.02	.01	-.01	.00	.00	.00	-.02	.01	-.02	.00	.00	.00

Load # 2: 12-SC 9014-DIN. Mounted at Tower C.G. Azimuth= .0
 Wind Area (ft*ft). No Ice: 74.13; Iced: 86.49
 Weight (lbs). No Ice: 576.00; Iced: 1308.00

Case	NO ICE LOAD VALUES						WITH ICE LOAD VALUES					
	Fx	Fy	Fz	Mx	My	Mz	Fx	Fy	Fz	Mx	My	Mz
1	-2.18	.00	-.58	.00	.00	.00	-1.91	.00	-1.31	.00	.00	.00
2	-1.09	1.89	-.58	.00	.00	.00	-.95	1.65	-1.31	.00	.00	.00
3	1.09	1.89	-.58	.00	.00	.00	.95	1.65	-1.31	.00	.00	.00
4	2.18	.00	-.58	.00	.00	.00	1.91	.00	-1.31	.00	.00	.00
5	1.09	-1.89	-.58	.00	.00	.00	.95	-1.65	-1.31	.00	.00	.00
6	-1.09	-1.89	-.58	.00	.00	.00	-.95	-1.65	-1.31	.00	.00	.00
7	-1.89	-1.09	-.58	.00	.00	.00	-1.65	-.95	-1.31	.00	.00	.00
8	.00	2.18	-.58	.00	.00	.00	.00	1.91	-1.31	.00	.00	.00
9	1.89	-1.09	-.58	.00	.00	.00	1.65	-.95	-1.31	.00	.00	.00
10	1.89	1.09	-.58	.00	.00	.00	1.65	.95	-1.31	.00	.00	.00
11	.00	-2.18	-.58	.00	.00	.00	.00	-1.91	-1.31	.00	.00	.00
12	-1.89	1.09	-.58	.00	.00	.00	-1.65	.95	-1.31	.00	.00	.00

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 DISCRETE LOADS VERSION: 1.1.0 FLANGE PLATES DATA VER: 2.5.1

FWT INC. P. O. BOX 8597. FORT WORTH, TX 76124-0597
 Analysis & Design of 300.-FT Tower per EIA/TIA-222-F

Design NO.: S05-0135-C Design Date: March 30, 2005
 Location: SANDY RIDGE 2, ROCKCASTLE COUNTY, KY
 Customer: VERIZON WIRELESS

JOB NO.: J050405006
 Engineer: HD/TW

POINT LOADS AT ELEVATION 280.0 ft FROM TOWER BASE.

Load # 5: 14' MTS SEC FRAMES. Mounted at Tower C.G. Azimuth= .0
 Wind Area (ft*ft). No Ice: 28.00; Iced: 34.00
 Weight (lbs). No Ice: 1500.00; Iced: 2000.00

Case	NO ICE LOAD VALUES						WITH ICE LOAD VALUES					
	Fx	Fy	Fz	Mx	My	Mz	Fx	Fy	Fz	Mx	My	Mz
1	-.81	.00	-1.50	.00	.00	.00	-.74	.00	-2.00	.00	.00	.00
2	-.40	.70	-1.50	.00	.00	.00	-.37	.64	-2.00	.00	.00	.00
3	.40	.70	-1.50	.00	.00	.00	.37	.64	-2.00	.00	.00	.00
4	.81	.00	-1.50	.00	.00	.00	.74	.00	-2.00	.00	.00	.00
5	.40	-.70	-1.50	.00	.00	.00	.37	-.64	-2.00	.00	.00	.00
6	-.40	-.70	-1.50	.00	.00	.00	-.37	-.64	-2.00	.00	.00	.00
7	-.70	-.40	-1.50	.00	.00	.00	-.64	-.37	-2.00	.00	.00	.00
8	.00	.81	-1.50	.00	.00	.00	.00	.74	-2.00	.00	.00	.00
9	.70	-.40	-1.50	.00	.00	.00	.64	-.37	-2.00	.00	.00	.00
10	.70	.40	-1.50	.00	.00	.00	.64	.37	-2.00	.00	.00	.00
11	.00	-.81	-1.50	.00	.00	.00	.00	-.74	-2.00	.00	.00	.00
12	-.70	.40	-1.50	.00	.00	.00	-.64	.37	-2.00	.00	.00	.00

POINT LOADS AT ELEVATION 260.0 ft FROM TOWER BASE.

Load # 6: 12-SC 9014-DIN. Mounted at Tower C.G. Azimuth= .0
 Wind Area (ft*ft). No Ice: 74.13; Iced: 86.49
 Weight (lbs). No Ice: 576.00; Iced: 1308.00

Case	NO ICE LOAD VALUES						WITH ICE LOAD VALUES					
	Fx	Fy	Fz	Mx	My	Mz	Fx	Fy	Fz	Mx	My	Mz
1	-2.09	.00	-.58	.00	.00	.00	-1.83	.00	-1.31	.00	.00	.00
2	-1.05	1.81	-.58	.00	.00	.00	-.92	1.59	-1.31	.00	.00	.00
3	1.05	1.81	-.58	.00	.00	.00	.92	1.59	-1.31	.00	.00	.00
4	2.09	.00	-.58	.00	.00	.00	1.83	.00	-1.31	.00	.00	.00
5	1.05	-1.81	-.58	.00	.00	.00	.92	-1.59	-1.31	.00	.00	.00
6	-1.05	-1.81	-.58	.00	.00	.00	-.92	-1.59	-1.31	.00	.00	.00
7	-1.81	-1.05	-.58	.00	.00	.00	-1.59	-.92	-1.31	.00	.00	.00
8	.00	2.09	-.58	.00	.00	.00	.00	1.83	-1.31	.00	.00	.00
9	1.81	-1.05	-.58	.00	.00	.00	1.59	-.92	-1.31	.00	.00	.00
10	1.81	1.05	-.58	.00	.00	.00	1.59	.92	-1.31	.00	.00	.00
11	.00	-2.09	-.58	.00	.00	.00	.00	-1.83	-1.31	.00	.00	.00
12	-1.81	1.05	-.58	.00	.00	.00	-1.59	.92	-1.31	.00	.00	.00

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FWT INC. P. O. BOX 8597. FORT WORTH, TX 76124-0597
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Design NO.: S05-0135-C Design Date: March 30, 2005
 Location: SANDY RIDGE 2, ROCKCASTLE COUNTY, KY JOB NO.: J050405006
 Customer: VERIZON WIRELESS Engineer: HD/TW

P O I N T L O A D S A T E L E V A T I O N 240.0 ft F R O M T O W E R B A S E .

Load # 9: 14' MTS SEC FRAMES. Mounted at Tower C.G. Azimuth= .0
 Wind Area (ft*ft). No Ice: 28.00; Iced: 34.00
 Weight (lbs). No Ice: 1500.00; Iced: 2000.00

Case	NO ICE LOAD VALUES						WITH ICE LOAD VALUES					
	Fx	Fy	Fz	Mx	My	Mz	Fx	Fy	Fz	Mx	My	Mz
1	-.77	.00	-1.50	.00	.00	.00	-.70	.00	-2.00	.00	.00	.00
2	-.39	.67	-1.50	.00	.00	.00	-.35	.61	-2.00	.00	.00	.00
3	.39	.67	-1.50	.00	.00	.00	.35	.61	-2.00	.00	.00	.00
4	.77	.00	-1.50	.00	.00	.00	.70	.00	-2.00	.00	.00	.00
5	.39	-.67	-1.50	.00	.00	.00	.35	-.61	-2.00	.00	.00	.00
6	-.39	-.67	-1.50	.00	.00	.00	-.35	-.61	-2.00	.00	.00	.00
7	-.67	-.39	-1.50	.00	.00	.00	-.61	-.35	-2.00	.00	.00	.00
8	.00	.77	-1.50	.00	.00	.00	.00	.70	-2.00	.00	.00	.00
9	.67	-.39	-1.50	.00	.00	.00	.61	-.35	-2.00	.00	.00	.00
10	.67	.39	-1.50	.00	.00	.00	.61	.35	-2.00	.00	.00	.00
11	.00	-.77	-1.50	.00	.00	.00	.00	-.70	-2.00	.00	.00	.00
12	-.67	.39	-1.50	.00	.00	.00	-.61	.35	-2.00	.00	.00	.00

P O I N T L O A D S A T E L E V A T I O N 220.0 ft F R O M T O W E R B A S E .

Load # 10: 1-8-ft STD PARABOLIC-No Rad. Mounted at Corner 1. Azimuth= .0
 Wind Area (ft*ft). No Ice: 50.27; Iced: 50.27
 Weight (lbs). No Ice: 264.00; Iced: 550.00

Case	NO ICE LOAD VALUES						WITH ICE LOAD VALUES					
	Fx	Fy	Fz	Mx	My	Mz	Fx	Fy	Fz	Mx	My	Mz
1	-2.77	.00	-.26	.00	.00	.00	-2.16	.00	-.55	.00	.00	.00
2	-1.38	2.40	-.26	.00	.00	.00	-1.08	1.87	-.55	.00	.00	.00
3	1.38	2.40	-.26	.00	.00	.00	1.08	1.87	-.55	.00	.00	.00
4	2.77	.00	-.26	.00	.00	.00	2.16	.00	-.55	.00	.00	.00
5	1.38	-2.40	-.26	.00	.00	.00	1.08	-1.87	-.55	.00	.00	.00
6	-1.38	-2.40	-.26	.00	.00	.00	-1.08	-1.87	-.55	.00	.00	.00
7	-1.83	-1.06	-.26	.00	.00	-1.59	-1.43	-.83	-.55	.00	.00	-1.24
8	.00	2.12	-.26	.00	.00	-1.59	.00	1.65	-.55	.00	.00	-1.24
9	1.83	-1.06	-.26	.00	.00	-1.59	1.43	-.83	-.55	.00	.00	-1.24
10	1.83	1.06	-.26	.00	.00	1.59	1.43	.83	-.55	.00	.00	1.24
11	.00	-2.12	-.26	.00	.00	1.59	.00	-1.65	-.55	.00	.00	1.24
12	-1.83	1.06	-.26	.00	.00	1.59	-1.43	.83	-.55	.00	.00	1.24

DATE: 4- 6-2005

TIME: 15:25:48

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USER INTERFACE VERSION: 9.04.0014 DESIGN PROGRAM VERSION: 6.1.0
DISCRETE LOADS VERSION: 1.1.0 FLANGE PLATES DATA VER: 2.5.1

FWT INC. P. O. BOX 8597. FORT WORTH, TX 76124-0597
Analysis & Design of 300.-FT Tower per EIA/TIA-222-F

Design NO.: S05-0135-C Design Date: March 30, 2005
Location: SANDY RIDGE 2, ROCKCASTLE COUNTY, KY
Customer: VERIZON WIRELESS

JOB NO.: J050405006
Engineer: HD/TW

Section Number	Top Elev	Top Face Width	Bay Size	Brace Type	Weight (lb)
1	300.00	4.00	5.00	X1	995.4
2	280.00	4.00	5.00	X1	1136.6
3	260.00	4.00	5.00	X1	1768.0
4	240.00	4.00	5.00	X1	2055.9
5	220.00	6.00	5.00	X1	2133.3
6	200.00	8.00	10.00	X2	2594.5
7	180.00	10.00	10.00	X2	2675.8
8	160.00	12.00	10.00	X2	3102.2
9	140.00	14.00	10.00	X2	3337.4
10	120.00	16.00	10.00	X2	3514.9
11	100.00	18.00	10.00	X2	4255.4
12	80.00	20.00	20.00	X3	4075.8
13	60.00	22.00	20.00	X3	4293.3
14	40.00	24.00	20.00	X3	4887.3
15	20.00	26.00	20.00	X3	5486.4
16	.00	28.00			

Est. Tower Weight: Legs and Braces. (No Bolts, Gussets, Splice Plates or Galvanizing) 46312.3 LB

USER INTERFACE VERSION: 9.04.0014 DESIGN PROGRAM VERSION: 6.1.0
 DISCRETE LOADS VERSION: 1.1.0 FLANGE PLATES DATA VER: 2.5.1

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 Location: SANDY RIDGE 2, ROCKCASTLE COUNTY, KY
 Customer: VERIZON WIRELESS

JOB NO.: J050405006
 Engineer: HD/TW

T O W E R D E S I G N S U M M A R Y
 ALLOWABLE LOADS ARE INCREASED BY 33.3%
 Yield Stress: Legs- 50. ksi; Bracing- 36. ksi.

EL = Equal Leg Angle. SL = Short Leg Vertical. LL = Long Leg Vertical.
 CC = Compression Capacity. CL = Compression Load. TC = Tension Capacity. TL = Tension Load.

Section Number	MEMBER DATA Type D E S C R I P T I O N	C O M P R E S S I O N				T E N S I O N			A325N BOLTS
		KL/r	CL (kips)	CC (kips)	CL/CC	TL (kips)	TC (kips)	TL/TC	
10	LEG: 3 3/4" SOLID ROD DIA: 1L3 X 3 X 3/16 HOR: 1L3 X 3 X 3/16 TOP-SPL: PL 2 1/4" x 12" Φ BOT-SPL: PL 2 1/4" x 13" Φ	65.9 181.8 171.1	306.8 5.6 4.6	319.2 6.6 7.4	.96 .86 .62	271.3 5.5 4.6	291.9 15.1 8.2	.93 * .37 T .56 B	6-1 1/8 2-5/8 1-5/8
11	LEG: 4" SOLID ROD DIA: 1L3 X 3 X 1/4 HOR: 1L3 X 3 X 3/16 TOP-SPL: PL 2 1/4" x 13" Φ BOT-SPL: PL 2 1/4" x 13" Φ	61.6 196.3 191.3	327.8 5.9 4.9	375.9 7.4 5.9	.87 .80 .83	286.1 5.9 4.9	342.6 17.2 8.2	.84 * .34 S .60 B	6-1 1/4 2-5/8 1-5/8
12	LEG: 4" SOLID ROD DIA: 1L3 X 3 X 1/4 HOR: 1L3 X 3 X 3/16 SDG: 1L2 1/2 X 2 1/2 X 3/16 SHR: 1L2 X 2 X 3/16 TOP-SPL: PL 2 1/4" x 13" Φ BOT-SPL: PL 2 1/4" x 13" Φ	63.0 162.9 201.3 167.9 149.4	342.1 8.1 5.1 5.1 5.1	372.1 10.8 5.4 6.4 6.4	.92 .75 .96 .81 .80	301.6 7.4 5.1 5.1 5.1	342.6 17.2 8.2 8.2 7.3	.88 * .43 S .63 B .63 B .71 T	6-1 1/4 2-5/8 1-5/8 1-5/8 1-5/8
13	LEG: 4" SOLID ROD DIA: 1L3 X 3 X 1/4 HOR: 2L2 X 2 X 3/16 SDG: 1L2 1/2 X 2 1/2 X 3/16 SHR: 1L2 1/2 X 2 1/2 X 3/16 TOP-SPL: PL 2 1/4" x 13" Φ BOT-SPL: PL 2 1/4" x 15" Φ	62.7 168.7 213.9 177.5 131.0	365.3 7.8 5.5 5.5 5.5	372.8 10.1 6.2 5.7 10.5	.98 .78 .88 .96 .52	316.8 7.8 5.5 5.5 5.5	342.6 17.2 14.5 8.2 8.2	.92 * .46 S .38 T .67 B .67 B	6-1 1/4 2-5/8 1-5/8 1-5/8 1-5/8
14	LEG: 4 1/4" SOLID ROD DIA: 1L3 X 3 X 1/4 HOR: 2L2 1/2 X 2 1/2 X 3/16 SDG: 1L3 X 3 X 3/16 SHR: 1L2 1/2 X 2 1/2 X 3/16 TOP-SPL: PL 2 1/2" x 15" Φ BOT-SPL: PL 2 1/2" x 15" Φ	58.8 174.7 185.1 155.5 142.9	384.7 8.4 5.8 5.8 5.8	433.5 9.4 10.5 9.0 8.8	.89 .89 .55 .64 .66	331.5 8.0 5.8 5.8 5.8	396.8 17.2 16.3 8.2 8.2	.84 * .46 S .35 B .71 B .71 B	6-1 3/8 2-5/8 1-5/8 1-5/8 1-5/8
15	LEG: 4 1/4" SOLID ROD DIA: 2L2 1/2 X 2 1/2 X 3/16 HOR: 2L2 1/2 X 2 1/2 X 3/16 IHR: 1L3 1/2 X 3 1/2 X 1/4 SDG: 1L3 X 3 X 3/16 SHR: 1L2 1/2 X 2 1/2 X 3/16 TOP-SPL: PL 2 1/2" x 15" Φ BOT-SPL: PL 1 1/2" x 19" Φ	58.7 173.6 200.5 224.8 163.8 155.1	406.9 8.2 6.1 .1 6.1 6.1	434.0 11.9 8.9 6.7 8.1 7.5	.94 .69 .68 .02 .75 .82	348.1 8.2 6.1 .1 6.1 6.1	396.8 28.5 16.3 8.6 8.2 8.2	.88 * .29 T .37 B .01 S .75 B .75 B	2-5/8 1-5/8 1-5/8 1-5/8 1-5/8

ANCHOR PLATE: 19"Φ x 3/4" THK. ANCHOR BOLTS: 6-2"Φ x 6'- 0" TOTAL ANCHOR BOLT LENGTH

NOTES: THREADS INCLUDED IN SHEAR PLANE.

* - Tension Capacity of Bottom Splice Connection.

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Design NO.: S05-0135-C Design Date: March 30, 2005
 Location: SANDY RIDGE 2, ROCKCASTLE COUNTY, KY
 Customer: VERIZON WIRELESS

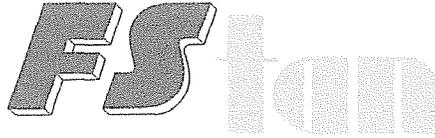
JOB NO.: J050405006
 Engineer: HD/TW

M A X I M U M D I S P L A C E M E N T S O F T O W E R C E N T E R L I N E
 WIND SPEED = 50. MPH, ICE = .00 INCHES

	ELEV (feet)	C.G DISP		SWAY		TWIST	
		(Inches)	Case	(Deg)	Case	(Deg)	Case
O	300.0	23.544	4	.902	4	.472	10
	295.0	22.370	4	.901	4	.466	8
	290.0	21.643	4	.896	4	.455	10
	285.0	20.486	4	.888	4	.454	8
O	280.0	19.767	4	.876	4	.438	10
	275.0	18.636	4	.863	4	.433	8
	270.0	17.929	4	.844	4	.405	10
	265.0	16.850	4	.819	4	.409	8
O	260.0	16.180	4	.787	4	.372	10
	255.0	15.170	4	.766	4	.368	11
	250.0	14.526	4	.739	4	.328	10
	245.0	13.590	4	.708	4	.330	11
O	240.0	12.991	4	.670	4	.283	10
	235.0	12.173	4	.624	4	.258	11
	230.0	11.651	4	.606	4	.204	10
	225.0	10.909	4	.567	4	.193	11
M	220.0	10.434	4	.550	4	.157	10
	215.0	9.756	4	.517	4	.147	11
	210.0	9.316	4	.500	4	.117	10
	205.0	8.703	4	.471	4	.110	11
	200.0	8.297	4	.454	4	.087	10
	190.0	7.286	4	.412	4	.092	11
	180.0	6.520	4	.381	4	.056	10
	170.0	5.672	4	.345	4	.063	11
	160.0	5.029	4	.316	4	.038	10
	150.0	4.321	4	.288	4	.042	11
	140.0	3.776	4	.264	4	.025	10
	130.0	3.187	4	.238	4	.030	11
	120.0	2.736	4	.216	4	.017	10
	110.0	2.252	4	.192	4	.021	8
	100.0	1.884	4	.170	4	.011	10
	90.0	1.504	4	.150	4	.014	11
	80.0	1.214	4	.132	4	.007	10
	60.0	.662	4	.095	4	.022	11
	40.0	.331	4	.060	4	.003	10
	20.0	.075	2	.029	4	.014	11

M --> MICROWAVE ANTENNA LEVEL
 O --> NON-MICROWAVE ANTENNA LEVEL

Elevations are measured from Tower Base



Land Surveyors & Consulting Engineers

***GEOTECHNICAL
ENGINEERING STUDY***

Proposed Sandy Ridge 2 Tower Site
Sand Hill Road & Mize Branch Road,
Mount Vernon, Rockcastle County, KY
FStan Project No. 04-2997

**FStan Land Surveyors &
Consulting Engineers
2315 Crittenden Drive
PO Box 17546
Louisville, KY 40217
Phone: (502) 636-5111
Fax: (502) 636-5263**

Prepared For:

**Ms. Jana Luecke
Craig & Associates
2508 Newburg Road
Louisville, KY 40205**

February 25, 2005



Land Surveyors and Consulting Engineers
Formerly F.S. Land & T. Alan Neal Companies

February 25, 2005

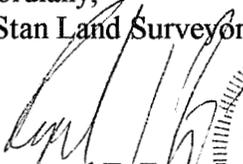
Ms. Jana Luecke
2508 Newburg Road
Louisville, KY 40205-2478

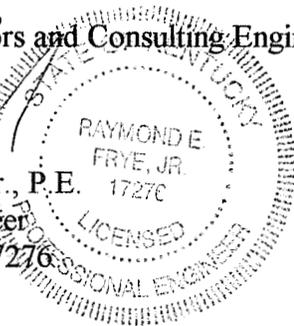
Re: Geotechnical Engineering Study
Proposed 300-foot SST
Cellco Partnership Site Name: Sandy Ridge 2
Sandy Hill Road and Mize Branch Road
Mount Vernon, Rockcastle County, KY 40445
FStan Project No. 04-2997

Dear Ms. Luecke:

Transmitted herewith is our geotechnical engineering report for the referenced project. This report contains our findings, an engineering interpretation of these findings with respect to the available project characteristics, and recommendations to aid design and construction of the tower foundations. We appreciate the opportunity to be of service to you on this project. If you have any questions regarding this report, please contact our office.

Cordially,
FStan Land Surveyors and Consulting Engineers


Raymond E. Frye, Jr., P.E.
Geotechnical Engineer
KY License No.: 17276



Copies submitted: (3) Ms. Jana Luecke

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APPENDIX

BORING LOCATION PLAN
GEOTECHNICAL BORING LOG
SOIL SAMPLE CLASSIFICATION

GEOTECHNICAL ENGINEERING INVESTIGATION

Proposed 300-foot Self-Supporting Telecommunications Tower

Cellco Partnership – Sandy Ridge 2

Sand Hill Road and Mize Branch Road, Mount Vernon, Rockcastle County, Kentucky

FStan Project No. 04-2997

1. PURPOSE AND SCOPE

The purpose of this study was to determine the general subsurface conditions at the location of the proposed tower by drilling four soil test borings and to evaluate this data with respect to foundation concept and design for the proposed self-supported tower. Also included is an evaluation of the site with respect to potential construction problems and recommendations for quality control during construction.

2. PROJECT CHARACTERISTICS

Cellco Partnership is proposing to construct a 300 feet tall self-supporting communications tower on property owned by Ralph and Connie Hamilton located on Sand Hill Road, Mount Vernon, Rockcastle County, Kentucky. The site explored consists of a grass covered hillside located south of Sand Hill Road. The site topography sloped from the southeast property corner downhill to the northwest property corner. The total site relief was about 9 feet and the approximate ground elevation at the anticipated tower center was about 1390 feet msl. An access road runs north from the site to Sand Hill Road. A truck mounted CME 55 drill rig was used to advance the borings. The location of the proposed tower is shown on the Boring Location Plan in the Appendix.

Preliminary information provided us indicates that this project will consist of constructing a self-support communications tower 300 feet tall. We have assumed the following structural information:

- Compression (per leg) = 500 kips
- Uplift (Per Leg) = 400 kips
- Total shear = 45 kips

The development will also include a small equipment shelter near the base of the tower. The

wall and floor loads for the shelter are assumed to be less than 4 kip/ln.ft. and 200 lbs/sq.ft., respectively.

Site Geology

The 1971 Mount Vernon Geologic Quadrangle map indicates the tower site is underlain by the Pennsylvanian aged Corbin Sandstone Member of the Lee Formation. The Corbin Sandstone consists of pinkish and yellowish gray fine to medium grained sandstone and conglomeratic sandstone. The formation weathers to pinkish gray to grayish red. The formation exists in lenses and can be cross bedded. The formation consists of rounded clear and amber stained quartz grains. The map indicated that the thickness of the Corbin sandstone is about 90 feet in the quadrangle area.

The geologic map indicated that coal is present over the quadrangle area, but did not indicate that surface or deep mining of the coal had occurred in the past. A detailed coal mining study was beyond the scope of this study.

3. SUBSURFACE CONDITIONS

The subsurface conditions were explored by drilling 4 soil test borings near the center of the proposed tower as located and staked on site by the project surveyor. We had originally proposed to advanced 3 soil test boring at the site; however, sampling the soft sandstone rock in boring B-1 was difficult as the sampling process washed the soft sandstone rock away, resulting in very poor sample recovery. A fourth boring was advanced to attempt to sample the soft rock using more aggressive soil augering techniques. The Geotechnical Boring Logs, which are included in the Appendix, describes the materials and conditions encountered. A reference sheet defining the terms and symbols used on the boring logs is also included in the Appendix. The general subsurface conditions disclosed by the test borings are discussed in the following paragraphs.

The below the surface vegetation the thickness of the topsoil encountered at the boring locations ranged from about 2 to 12 inches thick. Below the topsoil, the borings encountered reddish brown weathered sandstone. The standard penetration test values (N-values) ranged from 12

blows per foot (bpf) to more than 100 bpf. Refusal materials were encountered in each boring at depths ranging from 1 foot to 20 feet below the ground surface.

The bedrock was sampled in boring B-1 from 1 foot to a depth of 20.0 feet below the ground surface. In general, the rock samples consisted of poorly cemented reddish brown fine to medium grained sandstone. Because the sandstone was soft and poorly cemented, the rock coring process tended to wash the sample away resulting in poor sample recovery of less than 20 percent. The Rock Quality Designation (RQD) was 0 percent. The rock coring was terminated at a depth of 20 feet. These values generally represent poor quality rock from a foundation support viewpoint.

Observations made at the completion of soil drilling operations indicated the borings were dry. It must be noted however, that short-term water readings in test borings are not necessarily a reliable indication of the actual groundwater level. Furthermore, it must be emphasized that the groundwater level is not stationary, but will fluctuate seasonally.

According to the 2002 Kentucky Building Code, Rockcastle County, Kentucky is within seismic design category B (an UBC equivalent seismic zone of 1). In this system, Zone E is the most seismically active while Zone B has the lowest earthquake potential. Based on the limited subsurface conditions encountered at the site and using Table 1615.1.1 of the building code, the site class is considered C. Seismic design requirements for telecommunication towers are given in section 1622 of the code. A detailed seismic study was beyond the scope of this report.

4. GEOTECHNICAL DESIGN RECOMMENDATIONS

The following geotechnical design recommendations have been developed on the basis of the previously described project characteristics (Section 2.0) and subsurface conditions (Section 3.0). This office must be notified if the project description included herein is incorrect, or if the proposed structure location is changed, to establish if revisions to the following recommendations are necessary.

4.1. Tower

4.1.1 General

The following design recommendations are based on the previously described project information, the subsurface conditions encountered in our borings, the results of our laboratory testing, empirical correlations for the soil types encountered, our analyses, and our experience. If there is any change in the project criteria or structure location, you should retain us to review our recommendations so that we can determine if any modifications are required. The findings of such a review can then be presented in a supplemental report or addendum.

We recommend FStan be retained to review the near-final project plans and specifications, pertaining to the geotechnical aspects of the project, prior to bidding and construction. We recommend this review to check that our assumptions and evaluations are appropriate based on the current project information provided to us, and to check that our foundation and earthwork recommendations were properly interpreted and implemented.

4.1.1 Mat Foundation

Bearing Capacity: A mat foundation is recommended for support of the proposed tower foundation. We recommend the mat foundation be designed to act as a rigid structure. All mat foundations should bear on the weathered rock that was encountered below about 5.0 feet in the borings. An allowable static net bearing pressure of 10 kips per square foot (ksf) is available in the weathered sandstone below a depth of about 5.0 feet. The mat foundation should be buried sufficiently deep to resist uplift and overturning forces.

Modulus of Subgrade Reaction: Based on the conditions encountered by the borings and our experience, we recommend sizing the mat foundation for a modulus of subgrade reaction (k_s) of 80 kcf. The k_s value was determined using the estimated total settlement of $\frac{1}{2}$ inch and the total contact pressure applied to the foundation subgrade. The total pressure applied to the foundation subgrade beneath the mat was assumed to be distributed uniformly across the plan dimension of the mat. A more rigorous analysis, such as using the computer program *PCA-Mats*, was beyond the scope of our services.

4.2. Equipment Building

We recommend that foundation inspections be performed at the time of foundation construction in an effort to identify unsuitable soils and remove them prior to foundation construction. The equipment building may be supported on shallow spread footings bearing in the weathered sandstone. The equipment building foundations should be sized for an allowable bearing pressure of 2000 pounds per square foot. The footings should be at least 12 inches wide. The footings should bear at a depth of at least 30 inches. All existing fill, topsoil or soft natural soil should be removed beneath footings.

The floor slab for the new equipment building may be subgrade supported on a properly prepared subgrade. The slab should be designed and adequately reinforced to resist the loads proposed. The exposed subgrade should be carefully inspected by probing and testing as needed. Any organic material still in place, frozen or excessively soft soil and other undesirable materials should be removed.

Once the subgrade has been properly prepared and evaluated, fill may be placed to attain the desired final grade. Any non-organic, naturally occurring, non-expansive soils can be used for structural fill, including those encountered on this site, pending evaluation by the geotechnical engineer. If more than 3 feet of fill is placed below the tower foundation, the geotechnical engineer should be contacted.

All engineered fill should be compacted to a dry density of at least 98 percent of the standard Proctor maximum dry density (ASTM D698). The compaction should be accomplished by placing the fill in about eight inch loose lifts and mechanically compacting each lift to at least the specified density. Field tests should be performed on each lift as necessary to insure that adequate compaction is being achieved.

4.3. Drainage and Groundwater Considerations

Good site drainage must be provided. Surface run-off water should be drained away from the shelter building and not allowed to pond. It is recommended that all foundation concrete be

placed the same day the excavation is made.

At the time of this investigation, groundwater was not encountered. Therefore, no special provisions regarding groundwater control are considered necessary for the proposed structures.

5. GENERAL CONSTRUCTION PROCEDURES AND RECOMMENDATIONS

It is possible that variations in subsurface conditions will be encountered during construction. Although only minor variations that can be readily evaluated and adjusted for during construction are anticipated, it is recommended the geotechnical engineer or a qualified representative be retained to perform continuous inspection and review during construction of the soils-related phases of the work. This will permit correlation between the test boring data and the actual soil conditions encountered during construction.

5.1 Shallow Foundations

The following is recommended for the mat and equipment building foundations:

We recommend the foundation subgrades be protected from exposure to water. Surface run-off water should be drained away from the excavation and not allowed to pond. If possible, all concrete should be placed that same day the excavation is made. If this is not practical, the excavation should be adequately protected. The following guides address protection of footing subgrades and our recommended remediation for any soft soils encountered.

- Protect foundation support materials exposed in open excavations from freezing weather, severe drying, and water accumulation.
- Remove any soils disturbed by exposure prior to foundation concrete placement.
- Place a "lean" concrete mud-mat over the bearing soils if the excavations must remain open overnight or for an extended period of time.
- Level or suitably bench the foundation bearing area.

- Remove loose soil, debris, and excess surface water from the bearing surface prior to concrete placement.
- Retain the geotechnical engineer to observe all foundation excavations and provide recommendations for treatment of any unsuitable conditions encountered.

5.2 Fill Compaction

All engineered fill placed adjacent to and above the tower foundation should be compacted to a dry density of at least 95 percent of the standard Proctor maximum dry density (ASTM D-698). This should be increased to 98 percent for any fill placed below the foundations of equipment building. The compaction should be accomplished by placing the fill in about 8 inch (or less) loose lifts and mechanically compacting each lift to at least the specified minimum dry density. Field density tests should be performed on each lift as necessary to insure that adequate moisture conditioning and compaction is being achieved.

Compaction by flooding is not considered acceptable. This method will generally not achieve the desired compaction and the large quantities of water will tend to soften the foundation soils.

5.3 Construction Dewatering

No serious dewatering problems are anticipated for shallow excavations. At the time of our investigation, ground water was not encountered. Depending upon seasonal conditions, some minor seepage into excavations may be experienced in shallow excavations. It is anticipated that any such seepage into shallow excavations can be handled by conventional dewatering methods such as pumping from sumps.

6. FIELD AND LABORATORY INVESTIGATION

The soil test boring was drilled at the tower center location established in the field by the project surveyor. Split-spoon samples were obtained by the Standard Penetration Test (SPT) procedure (ASTM D1586) in the test boring. The boring was extended to refusal materials. The refusal materials were sampled in one boring to the predetermined termination depth of 40.0 feet. The split-spoon and rock core samples were inspected and visually classified by a geotechnical

engineer. Representative portions of the soil samples were sealed in glass jars and the rock core were placed in standard sample boxes and returned to our laboratory.

The boring logs are included in the Appendix along with a reference sheet defining the terms and symbols used on the log and an explanation of the Standard Penetration Test (SPT) procedure. The log presents visual descriptions of the soil strata encountered, Unified Soil Classification System designations, groundwater observations, sampling information, laboratory test results, and other pertinent field data and observations.

7. LIMITATIONS OF STUDY

Our professional services have been performed, our findings obtained, and our recommendations prepared in accordance with generally accepted geotechnical engineering principles and practices. FStan is not responsible for the independent conclusions, opinions or recommendations made by others based on the field exploration and laboratory test data presented in this report.

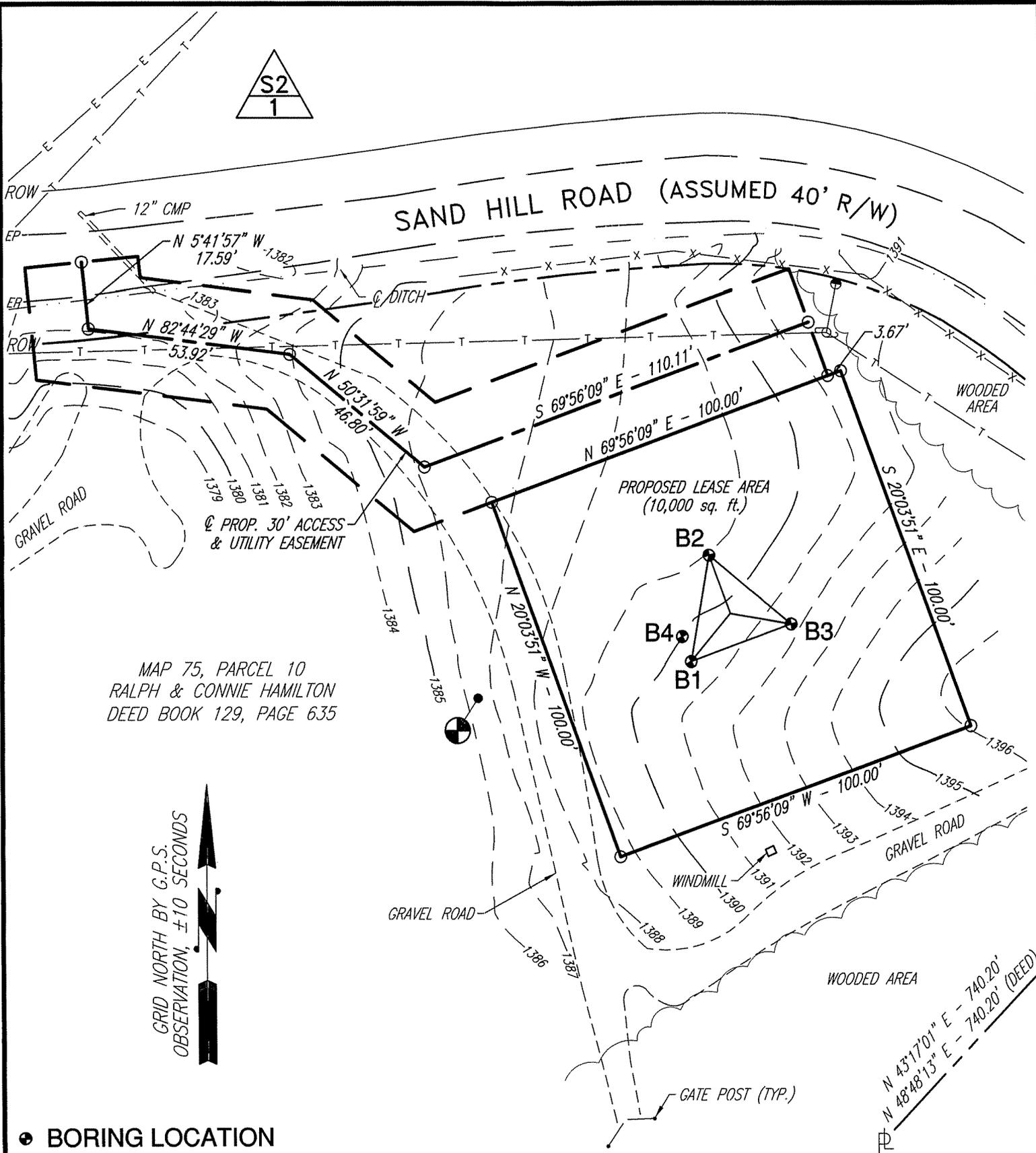
This geotechnical study is inherently limited since the engineering recommendations are developed from information obtained from test borings that only depict subsurface conditions at that specific location, time and depths shown on the log. Soil conditions at other locations may differ from those encountered in the test borings, and the passage of time may cause the soil conditions to change from those described in this report.

The nature and extent of variation and change in the subsurface conditions at the site may not become evident until the course of construction. Construction monitoring by the geotechnical engineer or a representative is therefore considered necessary to verify the subsurface conditions and to check that the soils connected construction phases are properly completed. If significant variations or changes are in evidence, it may then be necessary to re-evaluate the recommendations of this report. Furthermore, if the project characteristics are altered significantly from those discussed in this report, if the project information contained in this report is incorrect, or if additional information becomes available, a review must be made by this office to determine if any modification in the recommendations will be required.

APPENDIX

BORING LOCATION PLAN
GEOTECHNICAL BORING LOG
SOIL SAMPLE CLASSIFICATION

S2
1



MAP 75, PARCEL 10
RALPH & CONNIE HAMILTON
DEED BOOK 129, PAGE 635



● BORING LOCATION

BORING LOCATION PLAN

SITE NAME: SANDY RIDGE 2
PROPOSED 300 SELF-SUPPORT TOWER
SAND HILL ROAD &
MIZE BRANCH ROAD
MT. VERNON, KY 40445

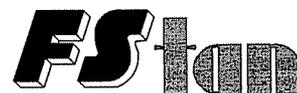
NOT TO SCALE

PROJECT #:

04-2997

DATE:

2/25/05



F.S. Land Company
T. Alan Neal Company
Land Surveyors and Consulting Engineers

PO Box 17546 2313/2315 Crittenden Drive
Louisville, KY 40217
Phone: (502) 635-5866 (502) 636-5111
Fax: (502) 636-5263

FStan Land Surveyors and Consulting Engineers
P.O. Box 17546
2315 Crittenden Drive
Louisville, KY 40217
(502) 636-5866
(502) 636-5263

Geotechnical Boring Log

Boring No: **B-1**

Client: NEW PAR dba Verizon Wireless	Project Number: 04-2997
Project: Proposed Sandy Ridge 2 Tower	Drilling Firm: CAE
Location: Sand Hill Road, Mt. Vernon, KY. 40445	Project Manager: Ray Frye
Date Started: 2/22/2005	Total Depth of Boring: 20 ft
Date Completed: 2/23/2005	DRY on rods
Boring Method: HSA w/CME-55	DRY at completion
Surface Elevation: NA	NA NA hours after completion

Layer Depth ft	Legend	Material Description	Depth Scale ft	Sample Data					Remarks	
				No.	Type	Blows	Rec. %	PP tsf		W %
0.6	TOPSOIL	Reddish brown, weathered SANDSTONE.								SURFACE TYPE: GRASS HAMMER TYPE: AUTOMATIC Auger refusal at 3 feet. Beging coring.
3.0		Reddish brown, weathered SANDSTONE.	1	SS	2-7-50	33				
			5							
			1	RC			20			RQD = 0
			10							
			15							
			2	RC			0			RQD = 0
20.0		Bottom of Boring at 20 ft	20							
			25							
			30							
			35							

GEOTECHNICAL BORING LOG 04-2997.GPJ FSTAN.GDT 2/25/05

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P.O. Box 17546
2315 Crittenden Drive
Louisville, KY 40217
(502) 636-5866
(502) 636-5263

Geotechnical Boring Log

Boring No: **B-2**

Client: NEW PAR dba Verizon Wireless	Project Number: 04-2997
Project: Proposed Sandy Ridge 2 Tower	Drilling Firm: CAE
Location: Sand Hill Road, Mt. Vernon, KY. 40445	Project Manager: Ray Frye
Date Started: 2/22/2005	Total Depth of Boring: 2 ft
Date Completed: 2/23/2005	DRY on rods
Boring Method: HSA w/CME-55	DRY at completion
Surface Elevation: NA	NA NA hours after completion

Layer Depth ft	Legend	Material Description	Depth Scale ft	Sample Data					Remarks
				No.	Type	Blows	Rec. %	PP tsf	
0.5	TOPSOIL.							
2.0	Reddish brown, weathered SANDSTONE.	1	SS	2-7-50/0"	50			
		Bottom of Boring at 2 ft							SURFACE TYPE: GRASS HAMMER TYPE: AUTOMATIC Drive sampler refusal at 2.0 feet. Boring terminated.

GEOTECHNICAL BORING LOG 04-2997.GPJ FSTAN.GDT 2/25/05

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Louisville, KY 40217
(502) 636-5866
(502) 636-5263

Geotechnical Boring Log

Boring No: **B-3**

Client: NEW PAR dba Verizon Wireless	Project Number: 04-2997
Project: Proposed Sandy Ridge 2 Tower	Drilling Firm: CAE
Location: Sand Hill Road, Mt. Vernon, KY. 40445	Project Manager: Ray Frye
Date Started: 2/22/2005	Total Depth of Boring: 1 ft
Date Completed: 2/23/2005	DRY on rods
Boring Method: HSA w/CME-55	DRY at completion
Surface Elevation: NA	NA NA hours after completion

Layer Depth ft	Legend	Material Description	Depth Scale ft	Sample Data					Remarks	
				No.	Type	Blows	Rec. %	PP tsf		W %
0.2		TOPSOIL.		1	AU	0-0-0/0"	0			SURFACE TYPE: GRASS HAMMER TYPE: AUTOMATIC Auger refusal at 1.0 feet. Boring terminated.
1.0		Weathered SANDSTONE. Bottom of Boring at 1 ft								
			5							
			10							
			15							
			20							
			25							
			30							
			35							

GEOTECHNICAL BORING LOG 04-2997.GPJ FSTAN.GDT 2/25/05

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Louisville, KY 40217
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(502) 636-5263

Geotechnical Boring Log

Boring No: **B-4**

Client: NEW PAR dba Verizon Wireless	Project Number: 04-2997
Project: Proposed Sandy Ridge 2 Tower	Drilling Firm: CAE
Location: Sand Hill Road, Mt. Vernon, KY. 40445	Project Manager: Ray Frye
Date Started: 2/22/2005	Total Depth of Boring: 20 ft
Date Completed: 2/23/2005	DRY on rods
Boring Method: HSA w/CME-55	DRY at completion
Surface Elevation: NA	NA NA hours after completion

Layer Depth ft	Legend	Material Description	Depth Scale ft	Sample Data					Remarks	
				No.	Type	Blows	Rec. %	PP tsf		W %
1.0		TOPSOIL.								
		Reddish brown, weathered SANDSTONE.								
			1	AU	4-7-5	13				SURFACE TYPE: GRASS HAMMER TYPE: AUTOMATIC
			2	AU	27-44-60	67				Drive sampler refusal at 3 feet.
			3	AU	50/0"					
			4	AU	50/0"					
			5	AU	50/0"					The driller collected auger cuttings at the sample depths.
			6	AU	50/0"					
20.0		Bottom of Boring at 20 ft								Boring terminated.

GEOTECHNICAL BORING LOG 04-2997.GPJ FSTAN.GDT 2/25/05

SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS	
			GRAPH	LETTER		
<p>COARSE GRAINED SOILS</p> <p>MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE</p>	<p>GRAVEL AND GRAVELLY SOILS</p> <p>MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE</p>	<p>CLEAN GRAVELS</p> <p>(LITTLE OR NO FINES)</p>		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES	
		<p>GRAVELS WITH FINES</p> <p>(APPRECIABLE AMOUNT OF FINES)</p>		GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES	
		<p>GRAVELS WITH FINES</p> <p>(APPRECIABLE AMOUNT OF FINES)</p>		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES	
	<p>SAND AND SANDY SOILS</p> <p>MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE</p>	<p>CLEAN SANDS</p> <p>(LITTLE OR NO FINES)</p>		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES	
			<p>SANDS WITH FINES</p> <p>(APPRECIABLE AMOUNT OF FINES)</p>		SP	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES
			<p>SANDS WITH FINES</p> <p>(APPRECIABLE AMOUNT OF FINES)</p>		SM	SILTY SANDS, SAND - SILT MIXTURES
		<p>SANDS WITH FINES</p> <p>(APPRECIABLE AMOUNT OF FINES)</p>		SC	CLAYEY SANDS, SAND - CLAY MIXTURES	
			<p>SILTS AND CLAYS</p> <p>LIQUID LIMIT LESS THAN 50</p>		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
					CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
	OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY				
<p>SILTS AND CLAYS</p> <p>LIQUID LIMIT GREATER THAN 50</p>	<p>SILTS AND CLAYS</p> <p>LIQUID LIMIT GREATER THAN 50</p>		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS		
			CH	INORGANIC CLAYS OF HIGH PLASTICITY		
			OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS		
<p>HIGHLY ORGANIC SOILS</p>				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS	

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

CELLCO PARTNERSHIP

1A Letter

Date: January 7, 2005

FSTAN Project No: 04-2996

Site Name: SANDY RIDGE 2
Site No:

For Aeronautical Study No.

Location: City Mt. Vernon, Ky.
County Rockcastle

U.S.G.S. Quadrangle: Mt. Vernon, Ky.

(NAD 27) LATITUDE 37° 17' 20.51"
LONGITUDE 84° 15' 44.47"

(NAD 83) LATITUDE 37° 17' 20.82"
LONGITUDE 84° 15' 44.24"

SITE ELEVATION (NAVD 88)	1390' ± AMSL
PROPOSED TOWER HEIGHT	300' ± FAA AGL
PROPOSED LIGHTNING ARRESTOR HEIGHT	325' ± FAA AGL
OVERALL HEIGHT ELEVATION	1715' ± AMSL

I Certify, to the best of my knowledge and belief, that the horizontal and vertical datum as established from the referenced U.S.G.S. Quadrangle, is accurate to 1A Reporting requirements of ± 20 feet horizontally and ± 3 feet vertically.

The horizontal datum (coordinates) are in terms of the North American Datum of 1927 (NAD 27) and 1983 (NAD 83) and expressed as degrees, minutes and seconds.

The vertical datum (heights) are in terms of the National Geodetic Vertical Datum of 1988 and are determined to the nearest foot.

Kentucky State Plane Coordinates (South Zone) were established with Trimble Global Positioning Systems (GPS) receivers. This site has ties to the National Geodetic Reference System established by the National Geodetic Survey, formerly the U.S. Coast & Geodetic Survey by measurements to PID Station "GZ0632", designated as "175 T 52 RM 2".



CONSULTANT

Frank L. Sellinger, II, KY PLS No. 3282
FSTAN Land Surveyors and Consulting Engineers
2313/2315 Crittenden Drive, Louisville, Ky. 40217
Phone: 502-635-5866 Fax: 502-636-5263

Kentucky Transportation Cabinet, Kentucky Airport Zoning Commission, 200 Mero Street, Frankfort KY 40622

Kentucky Aeronautical Study Number

APPLICATION FOR PERMIT TO CONSTRUCT OR ALTER A STRUCTURE

1 APPLICANT - Name, Address, Telephone, Fax, etc.

Cellco Partnership
30 Independence Blvd.
Warren, NJ 07059
908-607-8132

9. Latitude: 37 ° 17 ' 20 82 "

10. Longitude: 084 ° 15 ' 44 24 "

11. Datum: NAD 83 NAD 27 Other

12. Nearest Kentucky City Livingston County: Rockcastle

13. Nearest Kentucky public use or Military airport:

London-Corbin Arpt

14. Distance from #13 to Structure 15.02 NM

15. Direction from #13 to Structure: 143 87 degrees

16. Site Elevation (AMSL): 1390 Feet

17. Total Structure Height (AGL): 315 Feet

18. Overall Height (#16 + #17) (AMSL): 1705 Feet

19. Previous FAA and/or Kentucky Aeronautical Study Number(s):

Description of Location: (Attach a USGS 7.5 minute Quadrangle Map or an Airport Layout Drawing with the precise site marked and any certified survey)

MT Vernon, KY

2 Representative of Applicant - Name, Address, Telephone, Fax

Jennifer Flynn
Verizon Wireless
30 Independence Blvd.
Warren, NJ 908-607-8132

3. Application for: New Construction Alteration Existing

4. Duration: Permanent Temporary (Months _____ Days _____)

5. Work Schedule: Start _____ End _____

6. Type: Antenna Tower Crane Building Power Line

Landfill Water Tank Other _____

7. Marking/Painting and/or Lighting Preferred:

Red Lights and Paint Dual - Red & Medium Intensity White

White - Medium Intensity Dual - Red & High Intensity White

White - High Intensity Other _____

FAA Aeronautical Study Number _____

20. Description of Proposal:

We are proposing to construct a 315 ft self support tower.

22. Has a "NOTICE OF CONSTRUCTION OR ALTERATION" (FAA Form 7460-1)

been filed with the Federal Aviation Administration?

No

Yes, When 9/21/2005

CERTIFICATION: I hereby certify that all the above statements made by me are true, complete and correct to the best of my knowledge and belief

Jennifer Flynn

9/21/2005

Printed Name

Signature

Date

PENALTIES: Persons failing to comply with Kentucky Revised Statutes (KRS 183.861 through 183.990) and Kentucky Administrative Regulations (602 KAR 050: Series) are liable for fines and/or imprisonment as set forth in KRS 183.990(3). Non-compliance with Federal Aviation Administration Regulations may result in further penalties.

Commission Action:

Chairman, KAZC

Administrator, KAZC

Approved

Disapproved

Date _____

McBRAYER, McGINNIS, LESLIE & KIRKLAND, ^{PLLC}
ATTORNEYS-AT-LAW

W. BRENT RICE
brice@mmlk.com

201 E. Main Street, Suite 1000
Lexington, Kentucky 40507
(859) 231-8780
FAX (859) 231-6518

September 22, 2005

Hon. Buzz Carloftis
Rockcastle County Judge Executive
Courthouse
205 Main Street
Mt. Vernon, KY 40456

VIA CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Re: **Public Notice - Public Service Commission of Kentucky,
Case No. 2005-00360 (The Sandy Ridge 2 Facility)**

Dear Judge Carloftis:

Cellco Partnership d/b/a Verizon Wireless has applied to the Public Service Commission of Kentucky for a Certificate of Public Convenience and Necessity to construct and operate an additional cell facility. The facility will be comprised of a 300' self-supporting tower and an equipment shelter to be located on Sand Hill Road and Mize Branch Road, Livingston, Rockcastle County, Kentucky. A map showing the location of the proposed new cell facility is enclosed.

The Commission invites your comments regarding the proposed construction. You also have the right to intervene in this matter. Your initial communication to the Commission must be received by the Commission within 20 days of the date of this letter as shown above.

Your comments and request for intervention should be addressed to: Executive Director's Office, Public Service Commission of Kentucky, Post Office Box 615, Frankfort, KY 40602. Please refer to **Case No. 2005-00360** in your correspondence. If I can be of assistance to you, please do not hesitate to call me.

Sincerely,



W. Brent Rice
Counsel for Verizon Wireless

WBR/dkw

Cellco Paratnership d/b/a Verizon Wireless
Adjoining Property Owners
Sandy Ridge 2 Facility

Mr. and Mrs. Ralph Hamilton
Route 5, Box 448
Livingston, KY 40445

Ms. Elaine Arkle
Ms. Elaine Sellers
P.O. Box 194
Livingston, KY 40445

Mr. and Mrs. James Smith
2196 Route 28
Goshen, OH 45122

Mr. and Mrs. Billy Gene Burke
P.O. Box 206
Livingston, KY 40445

Ms. Evelyn Mink
Route 5, Box 451
Livingston, KY 40445

Mr. and Mrs. Melvin Cromer
Route 5, Box 453
Mt. Vernon, KY 40456

Ms. Dora Sturgill
Route 5, Box 445
Livingston, KY 40445

Mr. and Mrs. Jackie Blackburn
Route 5, Box 443
Livingston, KY 40445

McBRAYER, MCGINNIS, LESLIE & KIRKLAND, ^{PLLC}
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September 22, 2005

VIA CERTIFIED MAIL- RETURN RECEIPT REQUESTED

Mr. and Mrs. Ralph Hamilton
Route 5, Box 448
Livingston, KY 40445

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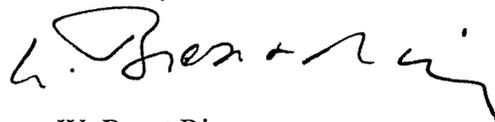
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Counsel for Verizon Wireless

WBR/dkw
Enclosure

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September 22, 2005

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Ms. Elaine Arkle
Ms. Elaine Sellers
P.O. Box 194
Livingston, KY 40445

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Case No. 2005-00360 (The Sandy Ridge 2 Facility)**

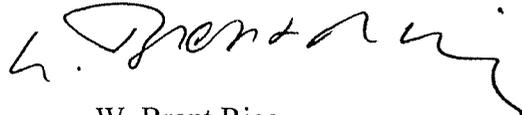
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September 22, 2005

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Mr. and Mrs. James Smith
2196 Route 28
Goshen, OH 45122

RE: **Public Notice - Public Service Commission of Kentucky,
Case No. 2005-00360 (The Sandy Ridge 2 Facility)**

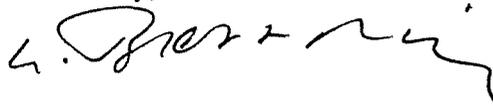
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Mr. and Mrs. Billy Gene Burke
P.O. Box 206
Livingston, KY 40445

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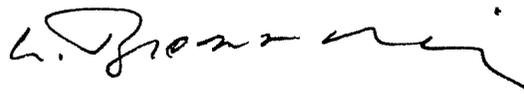
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September 22, 2005

VIA CERTIFIED MAIL- RETURN RECEIPT REQUESTED

Ms. Evelyn Mink
Route 5, Box 451
Livingston, KY 40445

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September 22, 2005

VIA CERTIFIED MAIL- RETURN RECEIPT REQUESTED

Mr. and Mrs. Melvin Cromer
Route 5, Box 453
Mt. Vernon, KY 40456

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Cellco Partnership d/b/a Verizon Wireless has applied to the Public Service Commission of Kentucky for a Certificate of Public Convenience and Necessity to construct and operate an additional cell facility. The facility will be comprised of a 300' self-supporting tower including attached antennas and an equipment shelter to be located at Sand Hill Road and Mize Branch Road, Livingston, Kentucky 40445. A map showing the location of the proposed new facility is enclosed. This notice is being sent to you because you own property within a 500' radius of the proposed facility or are a contiguous property owner.

The Commission invites your comments regarding the proposed construction. You also have the right to intervene in this matter. Your initial communication to the Commission must be received by the Commission within 20 days of the date of this letter as shown above.

Your comments and request for intervention should be addressed to: Executive Director's Office, Public Service Commission of Kentucky, Post Office Box 615, Frankfort, KY 40602. Please refer to **Case No. 2005-00360** in your correspondence.

Sincerely,



W. Brent Rice
Counsel for Verizon Wireless

WBR/dkw
Enclosure

McBRAYER, McGINNIS, LESLIE & KIRKLAND, PLLC
ATTORNEYS-AT-LAW

W. BRENT RICE
brice@mmlk.com

201 E. Main Street, Suite 1000
Lexington, Kentucky 40507
(859) 231-8780
FAX (859) 231-6518

September 22, 2005

VIA CERTIFIED MAIL- RETURN RECEIPT REQUESTED

Ms. Dora Sturgill
Route 5, Box 445
Livingston, KY 40445

RE: **Public Notice - Public Service Commission of Kentucky,
Case No. 2005-00360 (The Sandy Ridge 2 Facility)**

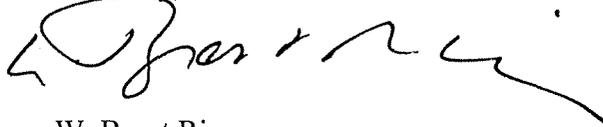
Dear Property Owner:

Cellco Partnership d/b/a Verizon Wireless has applied to the Public Service Commission of Kentucky for a Certificate of Public Convenience and Necessity to construct and operate an additional cell facility. The facility will be comprised of a 300' self-supporting tower including attached antennas and an equipment shelter to be located at Sand Hill Road and Mize Branch Road, Livingston, Kentucky 40445. A map showing the location of the proposed new facility is enclosed. This notice is being sent to you because you own property within a 500' radius of the proposed facility or are a contiguous property owner.

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Your comments and request for intervention should be addressed to: Executive Director's Office, Public Service Commission of Kentucky, Post Office Box 615, Frankfort, KY 40602. Please refer to **Case No. 2005-00360** in your correspondence.

Sincerely,



W. Brent Rice
Counsel for Verizon Wireless

WBR/dkw
Enclosure

McBRAYER, MCGINNIS, LESLIE & KIRKLAND, PLLC
ATTORNEYS-AT-LAW

W. BRENT RICE
brice@mmlk.com

201 E. Main Street, Suite 1000
Lexington, Kentucky 40507
(859) 231-8780
FAX (859) 231-6518

September 22, 2005

VIA CERTIFIED MAIL- RETURN RECEIPT REQUESTED

Mr. and Mrs. Jackie Blackburn
Route 5, Box 443
Livingston, KY 40445

RE: **Public Notice - Public Service Commission of Kentucky,
Case No. 2005-00360 (The Sandy Ridge 2 Facility)**

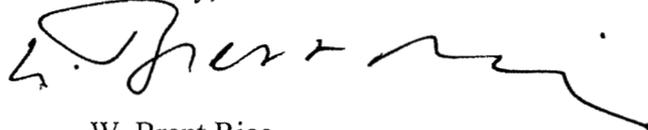
Dear Property Owner:

Cellco Partnership d/b/a Verizon Wireless has applied to the Public Service Commission of Kentucky for a Certificate of Public Convenience and Necessity to construct and operate an additional cell facility. The facility will be comprised of a 300' self-supporting tower including attached antennas and an equipment shelter to be located at Sand Hill Road and Mize Branch Road, Livingston, Kentucky 40445. A map showing the location of the proposed new facility is enclosed. This notice is being sent to you because you own property within a 500' radius of the proposed facility or are a contiguous property owner.

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Your comments and request for intervention should be addressed to: Executive Director's Office, Public Service Commission of Kentucky, Post Office Box 615, Frankfort, KY 40602. Please refer to **Case No. 2005-00360** in your correspondence.

Sincerely,



W. Brent Rice
Counsel for Verizon Wireless

WBR/dkw
Enclosure

OPTION AND LEASE AGREEMENT

This Agreement made this ____ day of May, 2005, between RALPH and CONNIE HAMILTON, with a principal mailing address of Route 5, Box 448, Livingston, Rockcastle County, Kentucky 40445 Social Security # ~~403-70-5871~~ hereinafter designated LESSOR and CELLCO PARTNERSHIP, a Delaware general partnership d/b/a VERIZON WIRELESS, with its principal offices located at 180 Washington Valley Road, Bedminster, New Jersey, 07921, hereinafter designated LESSEE. The LESSOR and LESSEE are at times collectively referred to hereinafter as the "Parties" or individually as the "Party".

LESSOR is the owner of that certain real property located in Livingston, Rockcastle County, State of Kentucky, as shown on the Tax Map of the City of Livingston as Map Number 75, Lot 10 and being further described in Deed Book 129 at Page 635 as recorded in the Office of Rockcastle County Clerk's Office (the entirety of LESSOR's property is referred to hereinafter as the "Property"). LESSEE desires to obtain an option to lease a portion of said Property, with a right-of-way for access thereto (hereinafter referred to as the "Premises"), containing approximately 10,000 square feet, and as substantially shown on Exhibit "A" attached hereto and made a part hereof.

NOW THEREFORE, in consideration of the sum of [REDACTED] hereinafter referred to as Option Money, to be paid by LESSEE to the LESSOR, which LESSEE will provide upon its execution of this Agreement, the LESSOR hereby grants to LESSEE the right and option to lease said Premises including a right-of-way for access thereto, for the term and in accordance with the covenants and conditions set forth herein.

The option may be exercised at any time on or prior to July 1, 2005. At LESSEE's election and upon LESSEE's prior written notification to LESSOR, the time during which the option may be exercised may be further extended for three additional periods of six (6) months each, through and including January 1, 2006; June 30, 2006; and December 31, 2006 with an additional payment of [REDACTED] by LESSEE to LESSOR for the first option period so extended, and with an additional payment of [REDACTED] by LESSEE to LESSOR for the second and third option period so extended. The time during which the option may be exercised may be further extended by mutual agreement in writing. If during said option period, or during the term of the lease, if the option is exercised, the LESSOR decides to subdivide, sell or change the status of the Property or his property contiguous thereto he shall immediately notify LESSEE in writing so that LESSEE can take steps necessary to protect LESSEE's interest in the Premises.

This option may be sold, assigned or transferred by the LESSEE without any approval or consent of the LESSOR to the LESSEE's principal, affiliates, subsidiaries of its principal; to any entity which acquires all or substantially all of LESSEE's assets in the market defined by the Federal Communications Commission in which the Property is located by reason of a merger,

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acquisition or other business reorganization; or to any entity which acquires or receives an interest in the majority of communication towers of the LESSEE in the market defined by the Federal Communications Commission in which the Property is located. As to other parties, this Agreement may not be sold, assigned or transferred without the written consent of the LESSOR, which such consent will not be unreasonably withheld or delayed.

Should LESSEE fail to exercise this option or any extension thereof within the time herein limited, all rights and privileges granted hereunder shall be deemed completely surrendered, this option terminated, and LESSOR shall retain all money paid for the option, and no additional money shall be payable by either Party to the other.

LESSOR shall cooperate with LESSEE in its effort to obtain all certificates, permits and other approvals that may be required by any Federal, State or Local authorities which will permit LESSEE use of the Premises. LESSOR shall take no action which would adversely affect the status of the Property with respect to the proposed use by LESSEE.

The LESSOR shall permit LESSEE, during the option period, free ingress and egress to the Premises to conduct such surveys, inspections, structural strength analysis, subsurface soil tests, and other activities of a similar nature as LESSEE may deem necessary, at the sole cost of LESSEE.

LESSOR agrees to execute a Memorandum of this Option to Lease Agreement which LESSEE may record with the appropriate Recording Officer. The date set forth in the Memorandum of Option to Lease is for recording purposes only and bears no reference to commencement of either term or rent payments.

Notice of the exercise of the option shall be given by LESSEE to the LESSOR in writing by certified mail, return receipt requested. Notice shall be deemed effective on the date it is posted. On the date of such notice the following agreement shall take effect:

LEASE AGREEMENT

1. PREMISES. LESSOR hereby leases to LESSEE a portion of that certain parcel of property (the entirety of LESSOR's property is referred to hereinafter as the "Property") containing 10,000 square feet situated on Map Number 75, Lot 10 all as shown on the Tax Map of the City of Livingston, together with the non-exclusive right for ingress and egress, seven (7) days a week, twenty-four (24) hours a day, on foot or motor vehicle, including trucks, and for the installation and maintenance of utility wires, poles, cables, conduits, and pipes over, under, or along a thirty (30) foot wide right-of-way extending from the nearest public right-of-way, Sand Hill Road and Mize Branch Road, to the demised premises, said demised premises and right-of-way (hereinafter referred to as the "Premises") for access being substantially as described herein in Exhibit "A" attached hereto and made a part hereof.

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In the event any public utility is unable to use the aforementioned right-of-way, the LESSOR hereby agrees to grant an additional right-of-way either to the LESSEE or to the public utility at no cost to the LESSEE.

2. SURVEY. LESSOR also hereby grants to LESSEE the right to survey the Property and the Premises, and said survey shall then become Exhibit "B" which shall be attached hereto and made a part hereof, and shall control in the event of boundary and access discrepancies between it and Exhibit "A". Cost for such work shall be borne by the LESSEE.

3. TERM. This Agreement shall be for an initial term of five (5) years, and beginning on the date the option is exercised by LESSEE at an annual rental of Eight Thousand Four Hundred 00/100 Dollars (\$8,400.00) to be paid in equal monthly installments on the first day of the month, in advance, to LESSEE, or to such other person, firm or place as the LESSOR may, from time to time, designate in writing at least thirty (30) days in advance of any rental payment date. The obligation to pay rent will begin immediately upon the exercise of the option, at which time rental payments and term will begin.

4. EXTENSIONS. This Agreement shall automatically be extended for four (4) additional five (5) year terms unless the LESSEE terminates it at the end of the then current term by giving the LESSOR written notice of the intent to terminate at least six (6) months prior to the end of the then current term.

5. EXTENSION RENTALS. The annual rental for the first (1st) five (5) year extension term shall be increased to [REDACTED] the second (2nd) five (5) year extension term shall be increased to [REDACTED] the third (3rd) five (5) year extension term shall be increased to [REDACTED]; and the fourth (4th) five (5) year extension shall be increased to [REDACTED]

6. ADDITIONAL EXTENSIONS. If at the end of the fourth (4th) five (5) year extension term this Agreement has not been terminated by either Party by giving to the other written notice of an intention to terminate it at least six (6) months prior to the end of such term, this Agreement shall continue in force upon the same covenants, terms and conditions for a further term of five (5) years and for five (5) year terms thereafter until terminated by either Party by giving to the other written notice of its intention to so terminate at least six (6) months prior to the end of such term. Annual rental for each such additional five (5) year term shall be equal to 115% of the annual rental payable with respect to the immediately preceding five (5) year term.

7. USE; GOVERNMENTAL APPROVALS. LESSEE shall use the Premises for the purpose of constructing, maintaining and operating a communications facility and uses incidental and all necessary appurtenances. A security fence consisting of chain link construction or similar but comparable construction may be placed around the perimeter of the Premises at the

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discretion of LESSEE (not including the access easement). All improvements shall be at LESSEE's expense and the installation of all improvements shall be at the discretion and option of the LESSEE. LESSEE shall have the right to replace, repair, add or otherwise modify its equipment or any portion thereof, whether the equipment is specified or not on any exhibit attached hereto, during the term of this Agreement. LESSEE will maintain the Premises in a good condition reasonable wear and tear excepted. LESSOR will maintain the Property, excluding the Premises, in good condition, reasonable wear and tear excepted. It is understood and agreed that LESSEE's ability to use the Premises is contingent upon its obtaining after the execution date of this Agreement all of the certificates, permits and other approvals that may be required by any Federal, State or Local authorities as well as satisfactory soil boring tests which will permit LESSEE use of the Premises as set forth above. LESSOR shall cooperate with LESSEE in its effort to obtain such approvals and shall take no action which would adversely affect the status of the Property with respect to the proposed use by LESSEE. In the event that any of such applications should be finally rejected or any certificate, permit, license or approval issued to LESSEE is canceled, expires, lapses, or is otherwise withdrawn or terminated by governmental authority or soil boring tests are found to be unsatisfactory so that LESSEE in its sole discretion will be unable to use the Property for its intended purposes or the LESSEE determines that the Premises is no longer technically compatible for its intended use, LESSEE shall have the right to terminate this Agreement. Notice of the LESSEE's exercise of its right to terminate shall be given to LESSOR in writing by certified mail, return receipt requested, and shall be effective upon the mailing of such notice by the LESSEE. All rentals paid to said termination date shall be retained by the LESSOR. Upon such termination, this Agreement shall become null and void and all the Parties shall have no further obligations including the payment of money, to each other.

8. INDEMNIFICATION. Each Party shall indemnify and hold the other harmless against any claim of liability or loss from personal injury or property damage resulting from or arising out of the use and occupancy of the Premises or the Property by the Party, its servants or agents, excepting, however, such claims or damages as may be due to or caused by the acts or omissions of the other Party, or its servants or agents.

9. INSURANCE. The Parties hereby waive any and all rights of action for negligence against the other which may hereafter arise on account of damage to the premises or to property, resulting from any fire, or other casualty of the kind covered by standard fire insurance policies with extended coverage, regardless of whether or not, or in what amounts, such insurance is now or hereafter carried by the Parties, or either of them. LESSOR and LESSEE each agree that at its own cost and expense, each will maintain comprehensive general liability and property liability insurance with liability limits of not less than \$500,000 for injury to or death of one or more persons in any one occurrence and \$500,000 for damage or destruction to property in any one occurrence; provided, however, that in the event LESSOR conducts, maintains, or operates any commercial enterprise pursuant to which LESSOR makes any part of the Premises available for access or use to members of the public at large, LESSOR shall maintain at its own cost and expense, comprehensive general liability insurance with limits of not less than \$1,000,000 for injury or death of one or more persons in any one occurrence and \$500,000 for damage or

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destruction to property in any one occurrence. LESSOR agrees that LESSEE may self-insure against any loss or damage which could be covered by a comprehensive general public liability insurance policy.

10. ANNUAL TERMINATION. Notwithstanding anything to the contrary contained herein, provided LESSEE is not in default hereunder and shall have paid all rents and sums due and payable to the LESSOR by LESSEE, LESSEE shall have the right to terminate this Agreement upon the annual anniversary of this Agreement provided that three (3) months prior notice is given the LESSOR.

11. INTERFERENCE. LESSOR agrees that LESSOR and/or any other tenants of the Property who currently have or in the future take possession of the Property will be permitted to install only such radio equipment that is of the type and frequency which will not cause measurable interference the existing equipment of the LESSEE. The Parties acknowledge that there will not be an adequate remedy at law for non-compliance with the provisions of this paragraph and therefore, LESSEE shall have the right to specifically enforce the provisions of this paragraph in a court of competent jurisdiction.

12. REMOVAL UPON TERMINATION. LESSEE, upon termination of the Agreement, shall, within ninety (90) days, remove its building(s), antenna structure(s) (except footings), fixtures and all personal property and otherwise restore the Property to its original condition, reasonable wear and tear excepted. If such time for removal causes LESSEE to remain on the Property after termination of this Agreement, LESSEE shall pay rent at the then existing monthly rate or on the existing monthly pro-rata basis if based upon a longer payment term, until such time as the removal of the building, antenna structure, fixtures and all personal property are completed.

13. RIGHT OF FIRST REFUSAL. If the LESSOR during the lease term or any extension of the lease term elects to sell all or any portion of the Property, whether separately or as part of the larger parcel of which the Property are a part, the LESSEE shall have the right of first refusal to meet any bona fide offer of sale on the same terms and conditions of such offer. If LESSEE fails to meet such bona fide offer within thirty (30) days after notice thereof from LESSOR, LESSOR may sell the Property or portion thereof to such third person in accordance with the terms and conditions of his offer. For purposes of this Paragraph, any transfer, bequest or devise of the LESSOR's interest in the Property as a result of the death of the LESSOR, whether by will or intestate succession, shall not be considered a sale of the Property for which the LESSEE has any right of first refusal.

14. RIGHTS UPON SALE. Should the LESSOR, at any time during the term of this Agreement, decide to sell all or any part of the Property to a purchaser other than LESSEE, such sale shall be under and subject to this Agreement and LESSEE's rights hereunder, and any sale by the LESSOR of the portion of this Property underlying the right-of-way herein granted shall be under and subject to the right of the LESSEE in and to such right-of-way.

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15. QUIET ENJOYMENT. LESSOR covenants that LESSEE, on paying rent and performing the covenants shall peaceably and quietly have, hold and enjoy the Premises.

16. TITLE. LESSOR covenants that LESSOR is seized of good and sufficient title and interest to the Property and has full authority to enter into and execute this Agreement. LESSOR further covenants that there are no other liens, judgments or impediments of title on the Property, or affecting LESSOR's title to the same and that there are no covenants, easements or restrictions which prevent the use of the Premises by the LESSEE as set forth above.

17. INTEGRATION. It is agreed and understood that this Agreement contains all agreements, promises and understandings between the LESSOR and LESSEE and that no verbal or oral agreements, promises or understandings shall be binding upon either the LESSOR or LESSEE in any dispute, controversy or proceeding at law, and any addition, variation or modification to this Agreement shall be void and ineffective unless made in writing and signed by the Parties. In the event any provision of the Agreement is found to be invalid or unenforceable, such finding shall not effect the validity and enforceability of the remaining provisions of this Agreement. The failure of either Party to insist upon strict performance of any of the terms or conditions of this Agreement or to exercise any of its rights under the Agreement shall not waive such rights and such Party shall have the right to enforce such rights at any time and take such action as may be lawful and authorized under this Agreement, either in law or in equity.

18. GOVERNING LAW. This Agreement and the performance thereof shall be governed, interpreted, construed and regulated by the laws of the State in which the Property is located.

19. ASSIGNMENT. This Agreement may be sold, assigned or transferred by the LESSEE without any approval or consent of the LESSOR to the LESSEE's principal, affiliates, subsidiaries of its principal; to any entity which acquires all or substantially all of LESSEE's assets in the market defined by the Federal Communications Commission in which the Property is located by reason of a merger, acquisition or other business reorganization; or to any entity which acquires or receives an interest in the majority of communication towers of the LESSEE in the market defined by the Federal Communications Commission in which the Property is located. As to other parties, this Agreement may not be sold, assigned or transferred without the written consent of the LESSOR, which such consent will not be unreasonably withheld or delayed. LESSEE may sublet the Premises within its sole discretion, upon notice to LESSOR. Any sublease that is entered into by LESSEE shall be subject to the provisions of this Agreement and shall be binding upon the successors, assigns, heirs and legal representatives of the respective parties hereto.

20. NOTICES. All notices hereunder must be in writing and shall be deemed validly given if sent by certified mail, return receipt requested or by commercial courier, provided the courier's regular business is delivery service and provided further that it guarantees delivery to the

05/17/05

addressee by the end of the next business day following the courier's receipt from the sender, addressed as follows (or any other address that the Party to be notified may have designated to the sender by like notice):

LESSOR: RALPH and CONNIE HAMILTON
Route 5, Box 448
Livingston, Kentucky 40445

LESSEE: CELLCO PARTNERSHIP
d/b/a Verizon Wireless
180 Washington Valley Road
Bedminster, New Jersey 07921
Attention: Network Real Estate

Notice shall be effective upon mailing or delivering the same to a commercial courier, as permitted above.

21. SUCCESSORS. This Agreement shall extend to and bind the heirs, personal representatives, successors and assigns of the Parties hereto.

22. SUBORDINATION AND NON-DISTURBANCE. At LESSOR's option, this Agreement shall be subordinate to any mortgage or other security interest or other security interest by LESSOR which from time to time may encumber all or part of the Property or right-of-way; provided, however, every such mortgage or other security interest or other security interest shall recognize the validity of this Agreement in the event of a foreclosure of LESSOR's interest and also LESSEE's right to remain in occupancy of and have access to the Premises as long as LESSEE is not in default of this Agreement. LESSEE shall execute whatever instruments may reasonably be required to evidence this subordination clause. In the event the Property is encumbered by a mortgage or other security interest or other security interest, the LESSOR immediately after this Agreement is executed, will obtain and furnish to LESSEE, a non-disturbance agreement for each such mortgage or other security interest or other security interest in recordable form. In the event the LESSOR defaults in the payment and/or other performance of any mortgage or other security interest encumbering the Property, LESSEE, may, at its sole option and without obligation, cure or correct LESSOR's default and upon doing so, LESSEE shall be subrogated to any and all rights, titles, liens and equities of the holders of such mortgage or security interest and the LESSEE shall be entitled to deduct and setoff against all rents that may otherwise become due under this Agreement the sums paid by LESSEE to cure or correct such defaults.

23. RECORDING. LESSOR agrees to execute a Memorandum of this Lease Agreement which LESSEE may record with the appropriate Recording Officer. The date set forth in the Memorandum of Lease is for recording purposes only and bears no reference to commencement of either term or rent payments.

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24. DEFAULT. In the event there is a default by the LESSEE with respect to any of the provisions of this Agreement or its obligations under it, including the payment of rent, the LESSOR shall give LESSEE written notice of such default. After receipt of such written notice, the LESSEE shall have fifteen (15) days in which to cure any monetary default and thirty (30) days in which to cure any non-monetary default, provided the LESSEE shall have such extended period as may be required beyond the thirty (30) days if the nature of the cure is such that it reasonably requires more than thirty (30) days and the LESSEE commences the cure within the thirty (30) day period and thereafter continuously and diligently pursues the cure to completion. The LESSOR may not maintain any action or effect any remedies for default against the LESSEE unless and until the LESSEE has failed to cure the same within the time periods provided in this Paragraph.

25. ENVIRONMENTAL.

a. LESSOR will be responsible for all obligations of compliance with any and all environmental and industrial hygiene laws, including any regulations, guidelines, standards, or policies of any governmental authorities regulating or imposing standards of liability or standards of conduct with regard to any environmental or industrial hygiene conditions or concerns as may now or at any time hereafter be in effect, that are or were in any way related to activity now conducted in, on, or in any way related to the Property, unless such conditions or concerns are caused by the activities of the LESSEE.

b. LESSOR shall hold LESSEE harmless and indemnify the LESSEE from and assume all duties, responsibility and liability at LESSOR's sole cost and expense, for all duties, responsibilities, and liability (for payment of penalties, sanctions, forfeitures, losses, costs, or damages) and for responding to any action, notice, claim, order, summons, citation, directive, litigation, investigation or proceeding which is in any way related to: a) failure to comply with any environmental or industrial hygiene law, including without limitation any regulations, guidelines, standards, or policies of any governmental authorities regulating or imposing standards of liability or standards of conduct with regard to any environmental or industrial hygiene concerns or conditions as may now or at any time hereafter be in effect, unless such compliance results from conditions caused by the LESSEE; and b) any environmental or industrial hygiene conditions arising out of or in any way related to the condition of the Property or activities conducted thereon, unless such environmental conditions are caused by the LESSEE.

26. CASUALTY. In the event of damage by fire or other casualty to the Premises that cannot reasonably be expected to be repaired within forth-five (45) days following same or, if the Property is damaged by fire or other casualty so that such damage may reasonably be expected to disrupt LESSEE's operations at the Premises for more than forty-five (45) days, then LESSEE may at any time following such fire or other casualty, provided LESSOR has not completed the restoration required to permit LESSEE to resume its operation at the Premises, terminate this Lease upon fifteen (15) days written notice to LESSOR. Any such notice of termination shall cause this Lease to expire with the same force and effect as though the date set forth in such notice were the

05/17/05

date originally set as the expiration date of this Lease and the parties shall make an appropriate adjustment, as of such termination date, with respect to payments due to the other under this Lease. Notwithstanding the foregoing, all rental shall abate during the period of such fire or other casualty.

27. CONDEMNATION. In the event of any condemnation of the Property, LESSEE may terminate this Lease upon fifteen (15) days written notice to LESSOR if such condemnation may reasonably be expected to disrupt LESSEE's operations at the Premises for more than forty-five (45) days. LESSEE may on its own behalf make a claim in any condemnation proceeding involving the Premises for losses related to the antennas, equipment, its relocation costs and its damages and losses (but not for the loss of its leasehold interest). Any such notice of termination shall cause this Lease to expire with the same force and effect as though the date set forth in such notice were the date originally set as the expiration date of this Lease and the parties shall make an appropriate adjustment as of such termination date with respect to payments due to the other under this Lease.

28. SUBMISSION OF LEASE. The submission of this Lease for examination does not constitute an offer to lease the Premises and this Lease becomes effective only upon the full execution of this Lease by the Parties. If any provision herein is invalid, it shall be considered deleted from this Lease and shall not invalidate the remaining provisions of this Lease. Each of the Parties hereto warrants to the other that the person or persons executing this Lease on behalf of such party has the full right, power and authority to enter into and execute this Lease on such Party's behalf and that no consent from any other person or entity is necessary as a condition precedent to the legal effect of this Lease.

29. APPLICABLE LAWS. LESSEE shall use the Premises as may be required or as permitted by applicable laws, rules and regulations. LESSOR agrees to keep the Property in conformance with all applicable, laws, rules and regulations and agrees to reasonably cooperate with the LESSEE regarding any compliance required by the LESSEE in respect to its use of the Premises.

30. SURVIVAL. The provisions of the Agreement relating to indemnification from one Party to the other Party shall survive any termination or expiration of this Agreement. Additionally, any provisions of this Agreement which require performance subsequent to the termination or expiration of this Agreement shall also survive such termination or expiration.

31. CAPTIONS. The captions contained in this Agreement are inserted for convenience only and are not intended to be part of the Agreement. They shall not affect or be utilized in the construction or interpretation of the Agreement.

IN WITNESS WHEREOF, the Parties hereto have set their hands and affixed their respective seals the day and year first above written.

05/17/05

LESSOR:

BY: _____
Ralph Hamilton

BY: _____
Connie Hamilton

WITNESS

WITNESS

LESSEE:

CELLCO PARTNERSHIP, a Delaware general
partnership, d/b/a Verizon Wireless

BY: _____
Howard H. Bower
Midwest Area Vice President

WITNESS

C:\My Documents\WBR\verizon wireless\sandy ridge 2\Option & Lease Agreement.doc

05/17/05

Exhibit "A"

(Sketch of Property)

05/17/05

CELLCO PARTNERSHIP

FSTAN
 F.S. Land Company
 T. Alan Hiral Company
 Land Surveyors and Consulting Engineers
 401 S. 17th St., Suite 201, Lexington, KY 40502
 Phone: (606) 253-0244 (Fax) (606) 253-1111

SITE NUMBER:		
SITE NAME:	SANDY RIDGE 2	
SITE ADDRESS:	SAND HILL ROAD & WICE BRANCH ROAD LIVINGSTON, KY 40445	
PROPOSED CELLCO PARTNERSHIP LEASE AREA:	AREA = 10,000 sq. ft.	
PROPERTY OWNER:	RALPH & CONNIE HAMILTON ROUTE 5 BOX 448 LIVINGSTON, KY 40445	
MAP NUMBER:	75	
LOT NUMBER:	10	
SOURCE OF TITLE:	DEED BOOK 129, PAGE 635	
DWG BY:	CHKD BY:	DATE:
JUN	FSH	01.04.05
FSTAN PROJECT NO.:	04-2996	
SHEET 2 OF 2		
REVISIONS:		
C2		

- SHEET 1**
- VICINITY AND 500' STRUCTURAL MAP
 - ABUTTING PROPERTY OWNERS
 - U.S.G.S. QUAD MAP
- SHEET 1**
- PROPOSED CELLCO PARTNERSHIP LEASE AREA
 - LEGAL DESCRIPTIONS
 - FLOOD ZONE DATA

UNDERGROUND UTILITIES
 CALL 811 BEFORE YOU DIG
 800-4-A-DIG
 606-253-0244
 606-253-1111
 UTILITIES PROTECTION SERVICE
 800-4-A-DIG
 THE ABOVE INFORMATION IS BASED ON DATA SUBMITTED BY THE UTILITY COMPANIES AND IS NOT GUARANTEED BY FSTAN. IT IS THE USER'S RESPONSIBILITY TO VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES BEFORE ANY CONSTRUCTION.

COORDINATE POINT LOCATION
 NAD 1983
 LATITUDE: 37° 17' 20.82"
 LONGITUDE: 84° 15' 44.24"
 NAVD 1983
 ELEVATION: 1330'
 STATE PLANE COORDINATE SOUTH ZONE
 (BLUE MARBLE GEOGRAPHIC CALCULATOR VERSION 3.0)
 NADTRANS: 1983TAS.8359
 EASTING: 1070186.6589

POWER POLE
 UTILITY COMPANY: UNKNOWN UTILITY CO.
 IDENTIFICATION #: N/A

PROJECT BENCHMARK
 NORTH: 1987F324123
 EAST: 2002F324123
 ELEVATION: 1326.15'
 LOCATION: BEING A SET IFC LOCATED 4' WEST AND 52' SOUTH OF THE NORTHWEST CORNER OF THE PROPOSED LEASE AREA

- SYMBOL LEGEND**
- WOOD POWER POLE
 - LIGHT POLE
 - TELEPHONE PEDESTAL
 - OLD ANCHOR
 - SANITARY SEWER MANHOLE
 - STORM SEWER MANHOLE
 - MANHOLE
 - WATER VALVE
 - WATER METER
 - FIRE HYDRANT
 - F.V. FENCE POST
 - SET #5 REBAR (UNLESS OTHERWISE NOTED)
 - EXISTING #5 REBAR (UNLESS OTHERWISE NOTED)

- ABBREVIATIONS**
- EP EDGE OF PAVEMENT
 - ROW RIGHT OF WAY
 - E CENTERLINE
 - RCF REINFORCED CONCRETE PIPE
 - CONC CONCRETE
 - CMP CORRUGATED METAL PIPE
 - R SUBJECT PROPERTY LINE
 - TC TOP OF CURB
 - BC BOTTOM OF CURB
 - POB POINT OF BEGINNING

- LINE LEGEND**
- OVERHEAD ELECTRIC
 - UNDERGROUND GAS LINE
 - UNDERGROUND WATER LINE
 - UNDERGROUND SANITARY SEWER LINE
 - OVERHEAD TELEPHONE LINE
 - DRAINAGE/STORM SEWER LINE
 - EXISTING FENCE
 - PROPOSED FENCE
 - SUBJECT PROPERTY BOUNDARY
 - RIGHT OF WAY CENTERLINE
- NOTE: SYMBOLS, ABBREVIATIONS, OR LINESYLES DO NOT NECESSARILY APPEAR ON DIMENSIONS. USE ONLY AS APPLICABLE.

SURVEYORS NOTES

SOURCE OF BEARING IS A R.P.S. OBSERVATION ON JULY 8, 2004.

SOURCE OF BEARING BASED ON THE NORTH PROPERTY LINE OF THE PROPERTY CONVEYED TO RALPH & CONNIE HAMILTON UNDER THE BEARING OF S 58°51'0" E PER D.B. 129, P.C. 503 AND THE CALCULATED BEARING OF S 58°51'0" E.

SITE SHOWN SUBJECT TO RIGHT OF WAY AND EASEMENTS SHOWN HEREON OR NOT.

NO SEARCH OF PUBLIC RECORDS HAS BEEN MADE BY THIS FIRM TO DETERMINE ANY SETBACK AND/OR ENCUMBRANCES IN THE TITLE OF THE PARCEL TRACT.

THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY.

EXISTING CONTIGUOUS ARE AT THE FOOT INTERVALS.

LAND SURVEYOR'S CERTIFICATE

TYPE "A" SURVEY UNLESS OTHERWISE SPECIFIED IN 4.000.

TO ALL PARTIES INTERESTED IN TITLE TO PREMISES SURVEYED I hereby certify that this plan and survey were made under my supervision, and that the angular and linear measurements, as witnessed by monuments shown hereon, are true and correct to the best of my knowledge and belief.

This survey and plot meets or exceeds the minimum standards of the governing authorities.

This property is subject to any recorded easements or right of ways not shown hereon.

Frank L. Sellinger, II Ky. Reg. No. 3282

LEGAL DESCRIPTIONS:

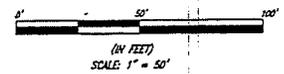
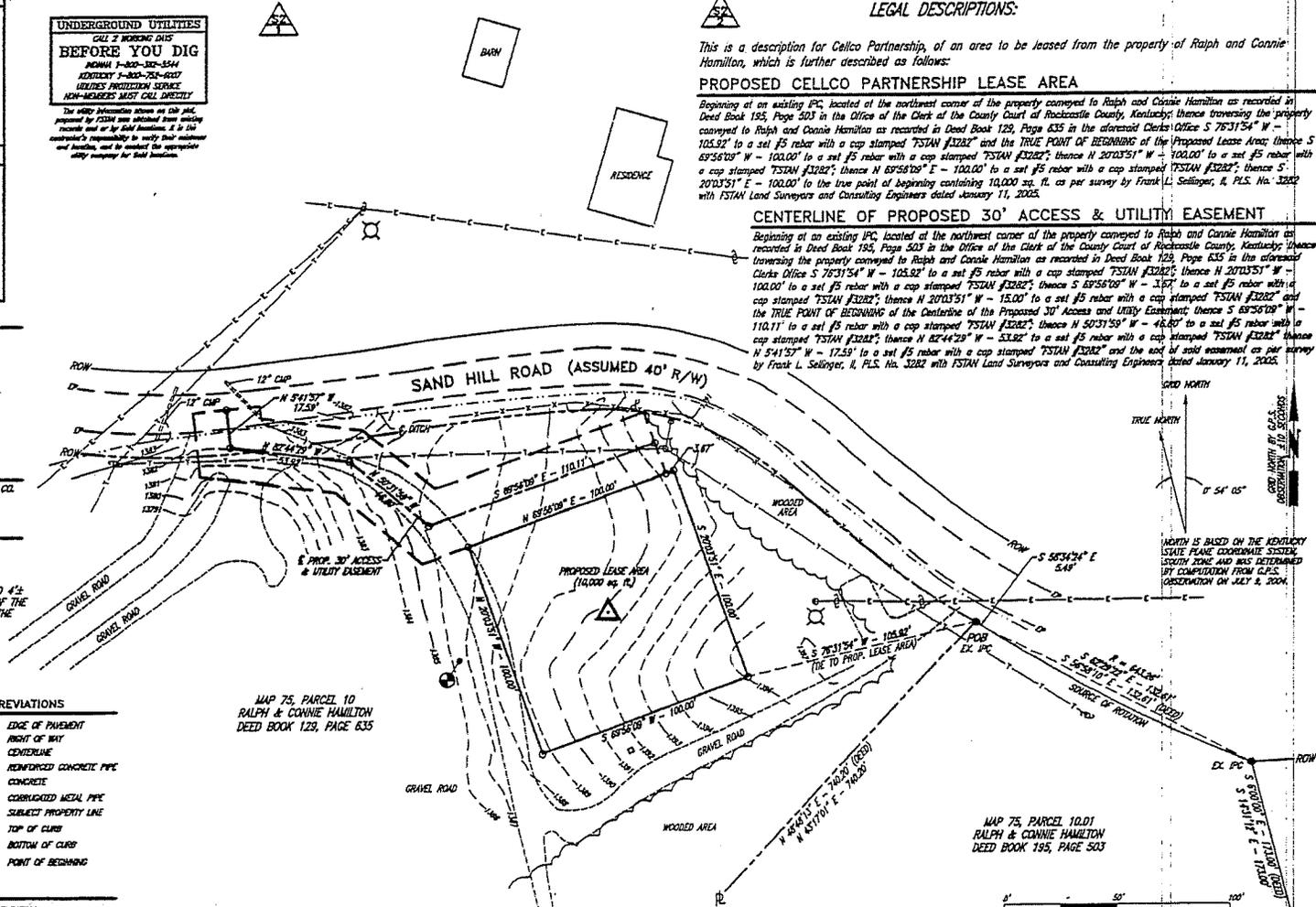
This is a description for Cellco Partnership, of an area to be leased from the property of Ralph and Connie Hamilton, which is further described as follows:

PROPOSED CELLCO PARTNERSHIP LEASE AREA

Beginning at an existing IFC, located at the northwest corner of the property conveyed to Ralph and Connie Hamilton as recorded in Deed Book 129, Page 635 in the Office of the Clerk of the County Court of Rockcastle County, Kentucky; thence traversing the property conveyed to Ralph and Connie Hamilton as recorded in Deed Book 129, Page 635 in the aforementioned Clerk's Office S 76°31'54" W - 105.92' to a set #5 rebar with a cap stamped T5TAN #3282; thence N 69°56'08" W - 100.00' to a set #5 rebar with a cap stamped T5TAN #3282; thence N 20°03'51" W - 100.00' to a set #5 rebar with a cap stamped T5TAN #3282; thence S 69°56'08" W - 100.00' to a set #5 rebar with a cap stamped T5TAN #3282; thence N 20°03'51" W - 100.00' to a set #5 rebar with a cap stamped T5TAN #3282; thence S 70°03'51" E - 100.00' to the true point of beginning containing 10,000 sq. ft. as per survey by Frank L. Sellinger, II, P.L.S. No. 3282 with FSTAN Land Surveyors and Consulting Engineers dated January 11, 2005.

CENTERLINE OF PROPOSED 30' ACCESS & UTILITY EASEMENT

Beginning at an existing IFC, located at the northwest corner of the property conveyed to Ralph and Connie Hamilton as recorded in Deed Book 129, Page 635 in the Office of the Clerk of the County Court of Rockcastle County, Kentucky; thence traversing the property conveyed to Ralph and Connie Hamilton as recorded in Deed Book 129, Page 635 in the aforementioned Clerk's Office S 76°31'54" W - 105.92' to a set #5 rebar with a cap stamped T5TAN #3282; thence N 20°03'51" W - 100.00' to a set #5 rebar with a cap stamped T5TAN #3282; thence S 69°56'08" W - 33.57' to a set #5 rebar with a cap stamped T5TAN #3282; thence N 20°03'51" W - 15.00' to a set #5 rebar with a cap stamped T5TAN #3282; and the TRUE POINT OF BEGINNING of the Centerline of the Proposed 30' Access and Utility Easement; thence S 69°56'08" W - 110.11' to a set #5 rebar with a cap stamped T5TAN #3282; thence N 50°31'53" W - 46.80' to a set #5 rebar with a cap stamped T5TAN #3282; thence N 54°15'7" W - 17.55' to a set #5 rebar with a cap stamped T5TAN #3282; and the end of said easement as per survey by Frank L. Sellinger, II, P.L.S. No. 3282 with FSTAN Land Surveyors and Consulting Engineers dated January 11, 2005.



"CELLULAR COMMUNICATION TOWER SITE SURVEY"
 REFERENCED AS "EXHIBIT B"

OWNER APPROVAL: _____ DATE: _____

CELLCO PARTNERSHIP APPROVAL: _____ DATE: _____

ROCKCASTLE COUNTY DOES NOT PARTICIPATE IN THE FEMA PROGRAM